

Bird, Ross Island  
McMurdo <sup>Lab</sup> Sd.  
What was previous  
proposal

---

was in Antarctica (field  
work from Oct. 61 -  
Feb. 62

---

What results of  
previous work.

---

I appreciate difficulties

but claims and hopes  
of program do not seem  
to take them into considera-  
tion. They (the difficulties)  
are not referred to (or mentioned)



Need a more careful selection of graduate students

Undergraduates should be out.

(If man can't get grad. students let some one else who can take over or better yet seek or "advertize" for qualified ones, before taking undergrads for serious research. For policing lab maybe O.K.

But for these tasks Eagle Scouts! / 2 or three in bio

lab., good publicity, useful simple work (check Chappell Book).

college.

would get what undergrads get at

as sci. aides  
Lab. assistant.

Dish washers

House keepers

Floor sweepers

Good Eagle Scout is

- capable conscientious work  
+ experienced

If projects are more than just making work or projects for students

Want not him is too conceited or proud to do humble work

~~should not be~~

These Ant. projects ~~should not~~ <sup>should</sup> be left to unsupervised students especially not undergrads.

Should not be unsupervised opportunities for giving students something to do while in Antarctica

These projects are to be more than.

more sincere, ~~serious~~ <sup>growing</sup> with greater potential



Mc Murdo needs

Twice calculator was used & not covered despite <sup>label</sup> sign posted on machine asking that it be covered. One left out on table & unplugged was discovered. Turned on, plug in wall outlet.

"Please replace cover" in caps  
I take no stock in contention that  
can't get (or persuade) good man  
to undertake worthy projects

What are things you want done?  
(not just basic research)

Let's have summary of accomplish-  
ments to date.



New Lab

Palmer

Utilities:

Electricity

Fuel

Water supply

F. W.

Salt,



Present system may result in not getting best men. First applicant with an attractive looking proposal gets the backing and second man, let us say better with much same proposal set nothing.

Cannot believe good men can not be persuaded.

What does present set-up indicate?  
That we are taking second best.

Those who want to get rid of (pass on, move along) students is key will not come for more than a brief visit, can't be very personally interested in project.

The real man ~~who~~ would <sup>great</sup> make the project as his personal business. — make it his personal endeavor. How sincerely interested ~~to be~~ if he won't make project he own personal endeavor.

Universities for over head + prestige should be agreeable to letting faculty members go. They <sup>Univ.</sup> get over head + prestige + maybe some favorable publicity out of projects.







Every grad. who comes down here  
should have several weeks Coast guard  
Head discipline and training to instill  
a little practicality into him; an intern-  
ship for working in Antarctic.

Too much a lark and adventure  
for some.

I have several times felt that Gov't should  
have first call on all material collected  
geological, paleontological, biological, at least.



Navy technician #3

Not too large a lab.

More a base for field operations.  
and men also small.

Small drawler type of vessel (clipping)  
(2-3 man crew.)

Cargo ship could be summer float  
lab. (

Palmer Lab.

Wohlschag says  
+ have vestibule

~~Lab. building should~~

not be smaller than 20x48.

Coleman type heater.

~~to~~ be expandable

① Utilities most important

Electric generators

Fuel use great deal of fuel oil.

(quantity)

Drum take  
place over  
tanks in main  
1.

Water supply; at McMurdo snow melter  
works best. Marble Pt has been sug-  
gested as suitable because of nearby  
glacier into which a steam pipe could  
run

Find a place with ice supply  
close

Lakes are more salt in front  
near bottom.

Distilled water in bio lab, is  
also used for tea & cold.

Salt water used is hauled up in  
tanks



McMurdo to Margaret Bay  
3,000 miles and coast

---

Chas. McMurdo 3000

---

4500 Welling to  
Margaret Bay

---

~~6000~~ - 2500 from King Geor  
to Valpo.

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Experiment No. ....

(K) = (Normality thio.  $\times$  8.0000) / 99.2 = (.....  $\times$  8.0000) / 99.2 = ....., K  
 (a) = Init. mgs.  $O_2$  / l. = mls thio.  $\times$  K = .....  $\times$  ..... = ....., a  
 (V) = Vol.  $H_2O$  in chamber = mls. in chamber - g. wt. fish = ..... - ..... = ....., V  
 (W) = Vol.  $H_2O$  withdrawn = .....

Calculations	Corrected mgs. $O_2$ in chamber	Minutes
Initial mgs. $O_2$ content = $1/1000 \times (a) \times (V) = 1/1000 \times \dots \times \dots = \dots$	$Y_1$ .....	$X_1$ .....
Mls. thio. $\times$ K = mgs $O_2$ / l. = ..... $\times$ ..... = ..... (b) $O_2$ content mgs = $1/1000 \times (b) \times (V) = 1/1000 \times \dots \times \dots = \dots$	$Y_2$ .....	$X_2$ .....
Mgs. $O_2$ initially = $1/1000 \times (b) \times (V - W) + 1/1000 \times (a) \times (W)$ $= 1/1000 \times \dots \times (\dots - \dots) + 1/1000 \times \dots \times \dots = \dots$ Mls thio. $\times$ K = mgs $O_2$ / l. = ..... $\times$ ..... = ..... (c) Mgs $O_2$ in chamber = $1/1000 \times (c) \times (V) = 1/1000 \times \dots \times \dots = \dots$ Init. Mgs - final mgs $O_2$ = mgs. $O_2$ consumed = ..... - ..... = ..... Corr. Mgs $O_2$ in chamber = $Y_2$ - mgs $O_2$ consumed = ..... - ..... = .....	$Y_3$ .....	$X_3$ .....



? Distance Valpo to Miami?

Few more McMurdo

tracks of  
snow  
collecting

Starfish slide

Cape Crozier penguins  
get Sci. American Art.

Another Fish trap slide

Get }

Sea tracks from east side  
Seal picture or two





McMurdo  
Penned Mr. [unclear]  
Notes

1725 Eye  
Telesec



## EXERCISE BOOK

NAME Waldo L. Schmitt STANDARD \_\_\_\_\_

SCHOOL Staten Island

LICENCE No. 3.



Address:  
U.S. National Museum  
Washington 25, D.C.  
U.S.A.



Who are the Carinological workers in  
grad schools to day =

McMurdo Laboratory and Station.

I had hoped to see Wohlschag at McMurdo  
but he came out shortly after we landed in  
Christchurch. I did make a date with  
him so that we <sup>(Jack Cronin and I)</sup> might ask a few ques-  
tions relative to requirements of proposed  
laboratory. 1

Bob Mason has done a superlative job, as  
liaison officer bet. Lab and military.

Has established most effective relations  
with air, army & navy personnel & officers

Have two columns: Minus side Plus side

~~As he would in hiring Lab. assistants  
from among qualified available grad student  
from all over U.S.~~

~~Students accepted criteria or just profs recommend  
who is more anxious than otherwise to place rather  
than to screen his students~~

~~If Wohlschag could not get graduate students  
to go, they should have been taken from other  
schools than Stanford, rather than to take  
undergrad. Bears out my contention of  
Prof's taking students from other schools work  
in same disciplines // Let prof pick from applicants~~



I am told

McMurdo of today is a vast improvement even over last year. There is less trash, cable, wood scraps (with or without <sup>erect</sup> nails) lying around. ~~But~~ there still is room for great improvement. Rocks of all sizes everywhere, many in the roads. These should be raked together (mechanically) and redistributed over road (if not believed to impede sledges carrying ~~stain~~ supplies that the tractors (bulldozers) struggle up hill with.

Like wise a magnet on truck should be run about to pick up nuts and bolts, screws, nails, scrap iron and what not lying about in great confusion from house to house, in all pathways and roads; couple of times I tripped over such and nearly took a nose dive.

One or two men (aside from "trucks" here suggested) could work wonders if such litter disposal, and perhaps rock piling were part of their daily assignment.



Ideas re lab. to be developed and amplified. <sup>(Palmer)</sup>

Should not be too large, rather a base for smaller portable units that could be readily (easily) moved from place to place.

Water supply is important. Nearness to a glacier would have advantages, perhaps even over a natural freshwater lake. But not one that like Vanda may have bottom of more saline waters.

Harbor shelter, against winds, and relatively "easy" ice conditions are also important.

For morale of long time "resident" workers weather is an important consideration.

Bright days, and greater percentage of clear days with minimum of wind, warmth, and generally agreeable climate can transcend many other desirable features of a location.



"Charcot, besides being a great gentleman, was a great philosopher: he said (realizing that it is an advantage that each man should have a cabin or some such place to shut himself in): 'It is often more difficult to bear the daily pin-pricks than the great griefs.'"

on p. 101, 2nd para. Admiral Lord Mountbatten's "Man against the Desolate Antarctic." New York, Wilfred Funk, Inc., 1951.

### Charcot on indiv. rooms.

Individual rooms with wash basins & toilet in same building (under same <sup>roof</sup>) shower, and or tub bath.

"Labels" for each man to wear as many as officers in Navy and Air Force wear. With at least 3 lines. Name, organization, or establishment represented or with which connected, and "research" being done as specifically as possible with space available, and discipline or phase here of being done by the individual.

Movable, at least partial partitions, to establish some sort of area for which research has at least implied responsibility for policing. There seems to me to be too much overflow and leaving (lying) around of tools of common use.

Of course heavy equipment shared by several men could be in a larger laboratory (common) room. <sup>shakers, ovens</sup> of various sorts <sup>the smaller more or less individual</sup> all by individual, table or lab. centres.



by other than specially designed or  
Ideas for future surveys: <sup>equipped ship such as El Tanin.</sup>  
Suggested by "Jack" Crowell water, current  
drift bottles

Photo gear for photographing <sup>sea</sup> bottom  
of area

Ice, optical properties, transmittal of  
light for growth of diatoms on under-  
surface even oblique rays of sun  
seen highly effective and efficiency

Spongy ice under surface is  
that what attracts penguins  
out on floes? Anyway there  
is when conditions are right  
a tremendous (volume) production  
of plant materials

Experimental craft to freeze in who  
has information on that score. Fram  
did, was it her construction, or just her good  
luck. We should know how diff types of vessels  
(designed for purpose) behave in freezing,  
(pressure ice, and or other)



Mc Murdo crashed up streets  
iron junk, and wood, rocks  
latter crushed & spread out in  
streets → rubber tired vehicles  
Cleaner streets would look better and at same time  
encourage in habits to keep them so.  
Buildings, murals color, enliven drab  
surroundings. Can be painted over  
Employment of talent in idle hours.

Star lab

Seems to me a very worthwhile project  
to pursue (research - investigate). We should  
know as much about freezing in as we  
do about subs, or other phases of military  
and naval activities.



Here on board did not want to take us <sup>unless we were prepared and knew what to do in an emergency.</sup> <sup>our pilot told</sup>

Program too diffuse

Does not like sep. rooms thinks present lab is ample for people using it & wants no partitions. When talk about free open space & bank to gether work done is meteorological etc. data gathering, observation, reading instruments!

For McMurdo

Jan 16/63 Wednesday. ~~We are~~ Expected to use helicopters as necessary in this survey. The chief of the helicopter pilots briefed us on survival, safety measures, and "gadgets" [Mae Wests, slings for being hoisted aboard, flares, life raft belted on, and on which we "sit" when in the machine, It's really tied ~~to~~ by belt to small of backs, thus forms a chair or seat cushion. Also we were told what to do in land or sea crashes, on one side or other, also exits, window and emergency door release.

All this reminds me of lack of this at McMurdo seem to have gotten careless as H. Bud Skinner insisted on my having one and lent me his. Every body should have one - there was no instruction given to any one to my knowledge. Tom Burke said this

we were told  
had heard what we were told  
I thought  
Island as  
our session



Archie Nash says present crowd is taking credit for last years clean up <sup>at McMydo</sup> that they then did away with no end of cans and trash in streets. In earlier day McM was supply point for stations of I. S. V. and no sci. work such as is being carried on now was in progress.



Arrived at McMurdo on.

Assigned quarters with Ken Maltin in two bunk quarters (former room divided into two), Ken & I on one side, Blank & Chap on other. Lights on one switch & only on ceiling, no individual bunk lights and ceiling light in one case away from bunk and in other over foot of bunk one sizeable steel locker each, but no drawer space or writing table.

— was impressed by industry of the mature men working in lab.

{ Mason, stable man (professor type, thought he was

{ Ratzgotski & Linkens doing job from  
selves. I would like to visit Univ Labs of men  
See usages or working at McMurdo to see how they are kept and  
Papendick first supplies are dispensed.  
{ On and lot of straightening up needed  
to be done when particular tool was  
wanted had to "comb" lab to find table  
on which it was left. Each night some one should  
restore to right place.



Culture indoors, if successful gives one plants or animal for future experiments, —

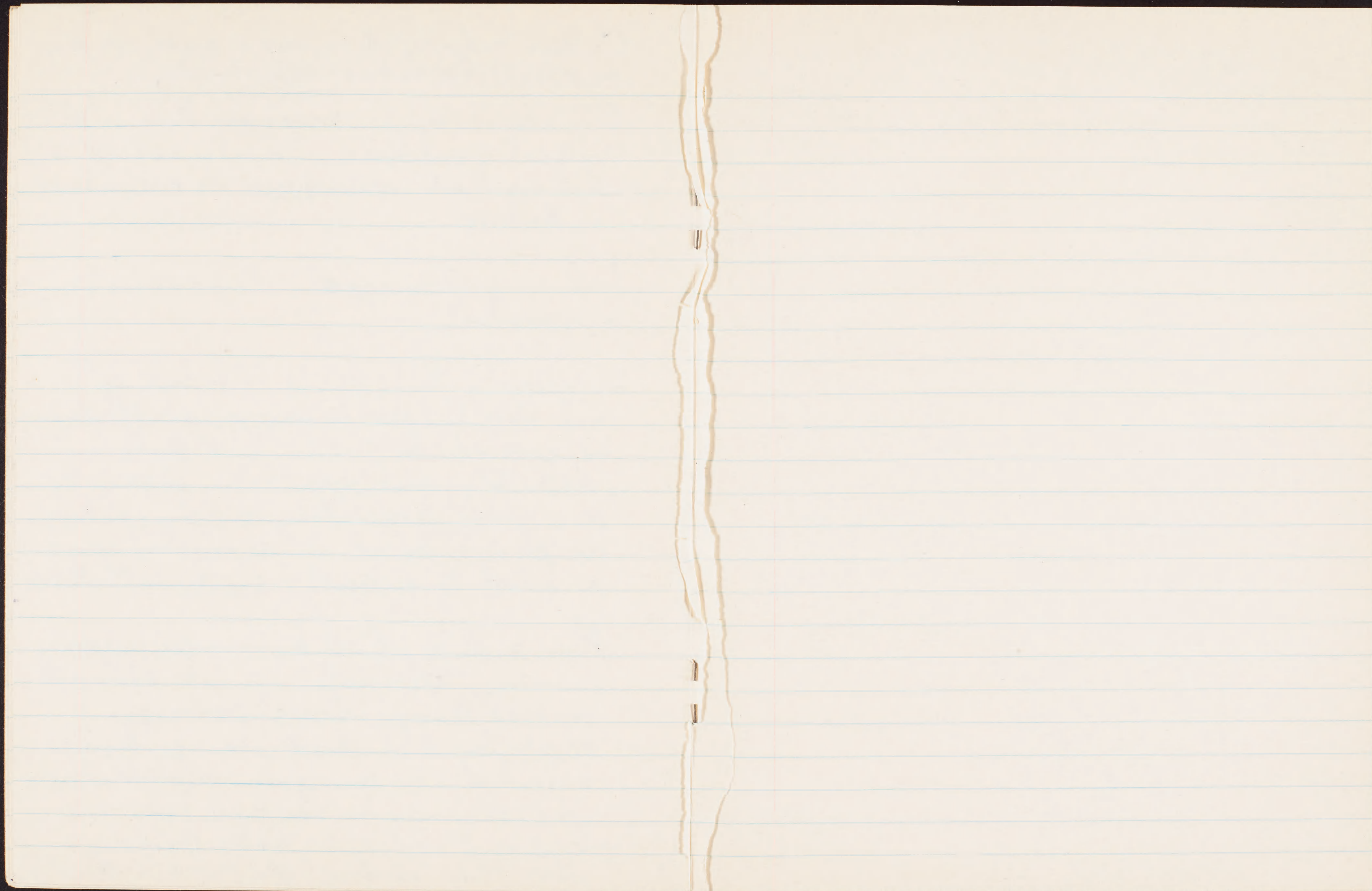
But are observable responses those under natural conditions. Really set up conditions that would never be encountered in Nature.

Lab. is well equipped. But care of apparatus?

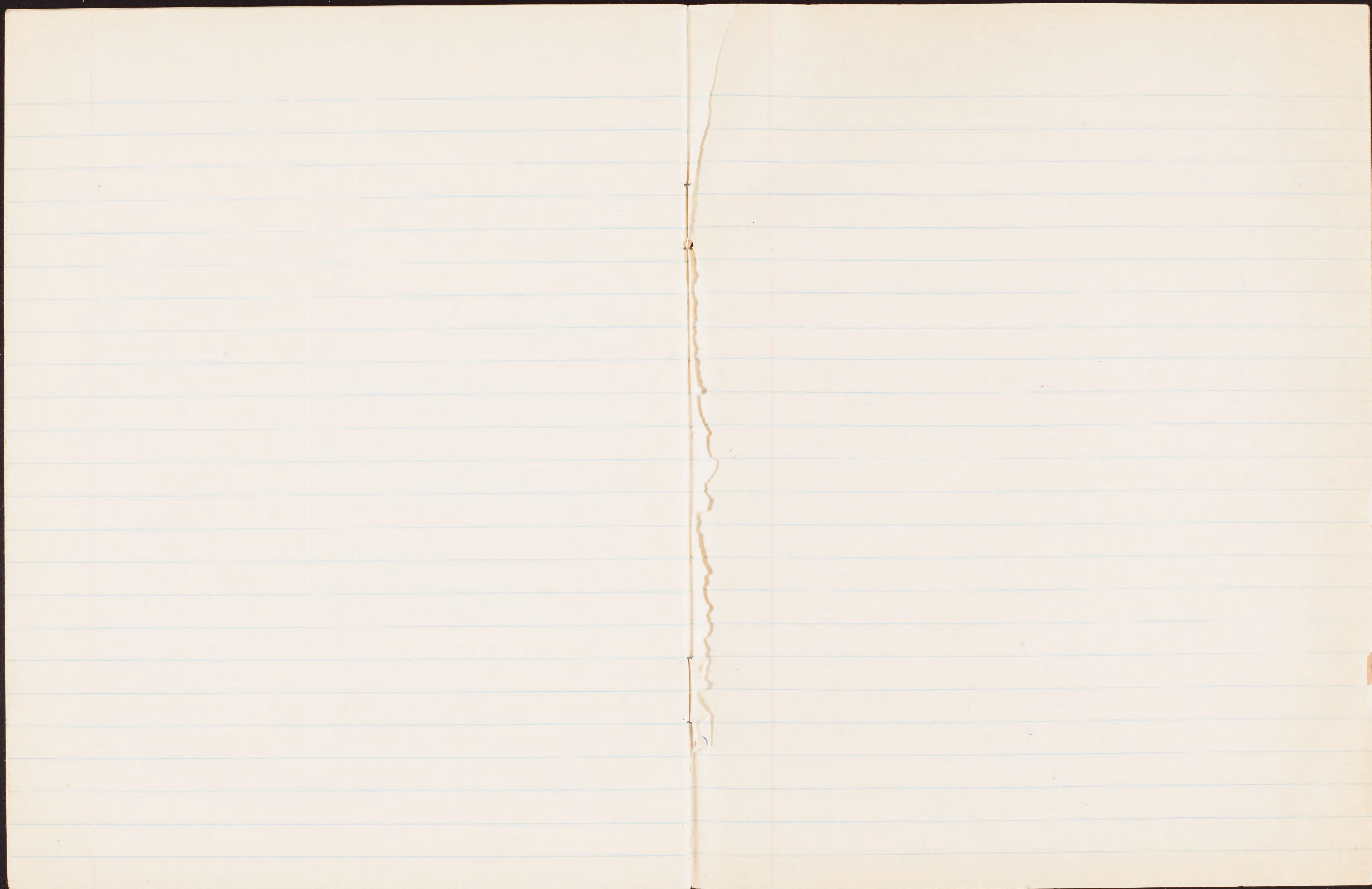
Supplies + Tools should be locked up! and store keeper in charge, stuff should be entered on cards as it goes out (definitely and specifically, especially in a place presenting supply problems as encountered in so isolated and so hard to support + supply as McMurdo.

Man on duty at all times — no errand running, straighten up lab each nite restore things. Tools perhaps in triplicate and duplicate so that no scientist can complain — (would like to visit Wisconsin to see how labs are kept and ordered. Ditto Berkeley + other Univ. sending men down here.











The enthusiasm with which I was greeted  
aboard something for he men to do [?] re-  
lieve the burden of most shipping and [?]  
I felt a great responsibility placed on me to  
do something about biological collecting.  
Lockers were searched lines were found  
dug out, or retrieved from dark corners  
fishing became the chief order of the day.

But a biologist cannot arrange apparatus  
of gear out of clear sky need a bit of advance  
notice to get it in shape and all hand for reference  
for use.  
Two weeks which has made [?] or 3?  
And to in precise dredge [?] or  
short notice, or for flying in or out of ship.

H.O. No. 58, Sailing Directions Antarctica, 1943.  
U. S. Navy Hydrographic Office.  
(Chin Strap Penguin → Piedmont Id.

Books  
"Antarctic Scout" — Richard Lee Chappell.  
"Antarctica", Frank Debenham, London Herbert Jenkins  
"Home of the Blizzard", Sir Douglas Mawson <sup>London</sup> Phila. J. B.  
1914 Lippincott, Co.

Need in Lab. Shackleton Repts. 2nd exped. (re Lakes)

"The White Desert, John Graeber, 1954  
Chatto and Windus London.

"~~A~~ is an account of Norwegian British  
Swedish Antarctic Exped. of 1949, 50 (51?)

Going to Telco, leaking launch; "Can you swim?"



# U.S.S. Staten Island

269 feet long  
63 foot beam  
29 foot draft } 6000 Tons  
displacement  
when fully loaded

6 2000 hp. diesel electric  
5000 HP on each two nickel aluminum  
propellers

16 knots

10 feet of ice speed one knot

5 feet of ice " 4 or more knots

2 helicopters.

Carries enough fuel to go around world  
twice

260 men 13 C.P.O.'s 19 officers

Commander John J. Metschel U.S.N.

Lt. Richard O. Sharron

Dr. R. E. Cannon

Lt. John F. Campbell

Jan. 5	313	Jan. 11	245	Erebus 12,449
6	317.5	12	259	
7	315.5	13	227.5	14,000 feet of ice
8	302	14	292.	
9	342	15	271.5	10 hr. flight from N. 2.
10	252	16	312.7	
		17	206	



Deception Ed (Feb. 12/13/63)

Other day in Jack's  
room when I asked to  
put tonight's <sup>drag</sup> name on  
the "agenda" Jack said  
it wasn't necessary  
But I asked because I  
wished to get his name  
on record. / This a.m.

too busy for a drag.

Heticos's slight was  
one of the things that  
made for business. Purely  
a photo junkie for Berg  
who did not deal with  
Jack but went direct  
to Commodore.

I do not know what  
deparure date is set



till midnight and then  
if I asked for half day  
for Schmitt my name  
would be an anathema  
to whole ships company  
I had also said I wanted  
to scout shores from  
entrance to ~~Argentine~~ <sup>Chilean</sup>  
Base, but did not put  
it in writing.

True Deception Id is  
not one of our primary  
objectives, but from fish  
trap <sup>results</sup> it should be a wonder-  
fully productive area, rich  
biologically.

However I would re-



Recommend that any work  
by Americans here be  
done in cooperation with  
one of existing stations  
with own boat, & perhaps  
boatway and winch  
installed to haul out  
boats, excellent beach  
for such operations  
also extra tanks for  
storage one of which  
could be converted in-  
to quarters with own  
aux. power plant.

cut windows & doors  
in shell floor could be  
two story. Could drill  
for heat, - There is a 650  
hot water well



Last evening when Capt. Mac mentioned that he would like to go to the Biscoe Islands, I said that we ought first to ascertain if there was time to spare for them. That was when I came up with the suggestion that a tentative or trial schedule should be worked out "backwards" from Mar. 6. Capt. Mac also wanted to have a look at the east side of Palmer Land — I would too — There is an area or <sup>are</sup> areas there "talked" about in the Lenton report that should perhaps be examined.

As a result a very rough estimate was jotted down so that one might have some idea as to whether, time-wise at least, that going to the Biscoes could be included or not.

It was my feeling that if a look was not taken to see how the time between now and March 6 might best be used that the trip might end up with not enough time to do the places about which USARP wanted information, or that the expedition might, on the other hand end up with time on its hands.

You will recall that you once said it would be helpful if at least some of the places examined on the way up the Peninsula could be revisited. This is another good reason why it might be well to arrive at some sort of an idea as to how much time could be devoted to looking at places, and what might possibly be left for revisiting perhaps, some of them.



(2)

Some allowance had to be made for bad weather, and when Capt. Mac totaled up the days listed in that tentative schedule, there were 16 days to spare for it. But unforeseen ship or ship-board delays could easily consume half that number.

Anyway Capt. Mac that the Biscoes might still be possible, but that decision we both agreed would have to be yours.

If the revisiting could also be worked in it would be fine too, the distances are not overly great, and the Captain knows or will know, before we are finished where he can safely anchor.

The guessing on paper of 4 days for the South Shetlands which Tom Berg thought allowed too little time for those islands was not a hard, fast, or final decision on Capt. Mac's or my part for the time needed for checking on Ralph Lenton's observations in that area.

Should not the places to be visited, which might be visited in addition, and perhaps revisited be weighed against the days available?

The tentative schedule that Capt. Mac and I ventured, and which he committed to paper was just the result of our guess work, and for your consideration. When he asked me what I thought about going to the Biscoes, I said, and he agreed that, that was a matter for you to decide.

Jan. 28, 1963



McMurdo

~~as seen~~

summer of '62-'63

(11)

Observations:

Things as they seemed

From the air "McMurdo" appears as a well-organized, well-laid out community of quonsets, rectangular box-like buildings, shops, and warehouses. In well gatronized parking areas, <sup>in</sup> auto dumps, <sup>-junk yards-</sup> or actively at work, according to the time of the day and their condition, are to be seen <sup>just</sup> about every conceivable type of automotive ~~vehicle~~ <sup>and "caterpillar" equipment</sup> ~~at present~~ <sup>loaders,</sup> rubber-tired trucks, <sup>loaders,</sup> weasels, sno-cats, bull-dozers, tractors, <sup>loaders,</sup> fork-lifts, and travelling hoists; also several helicopters.

Approaching from the "ice", and so <sup>from</sup> ~~can~~ <sup>on the</sup> ~~is~~ the "ground", the place ~~is~~ a bit bleak side with its "dirt" roads, and in the main, greying buildings, its bare, black-brown hills spotted with dwindling patches of last winter's snow. <sup>To all appearances,</sup> ~~For all the world,~~ a West Virginia mining town, but withal an extremely busy one.



Climbing the steep fire-shore, up and over dusty, rutted roadways of volcanic ash <sup>powerful</sup> "caterpillars" grind stubbornly along dragging behind them trains of two or more great ~~steel~~ sledges bearing seemingly impossible loads of about everything under the sun — red and black drums of gas and oil, yellow cylinders of acetylene cartons, crates, and <sup>wooden</sup> cases of equipment, food, and supplies ~~of all sorts~~ <sup>innumerable.</sup>

Brighter spots of color in ~~amongst~~ the busy scene are the brilliant green quarters of the USARP <sup>over-</sup>wintering personnel, and the substantial ~~red~~ "office" —

Bob Mason's headquarters building — and <sup>to day</sup> <sup>most</sup> ~~new~~ prominent on the landscape, the ~~great~~ <sup>new</sup> two-storey <sup>brighter</sup> "Butler Building", the USARP warehouse ~~and~~ rapidly being organized <sup>local</sup> supply depot. ~~Be-~~

~~The Butler Building~~ <sup>the Butler Building</sup> and "headquarters" stands the also ~~largely~~ <sup>pointed</sup> red Bio Lab ~~large~~ <sup>in large</sup> measure the raison d'être of all <sup>that is to be</sup> ~~seen~~ seen here. ~~and round about~~



or man made spur

to the right 3

Upon a "shelf" of the highest hill stands a closely knit group of somewhat forbidding looking buildings - the reactor station of great potentiality, the eventual source of light, heat, and power for the continuing well-being of all McMurdo.

A closer inspection reveals the purposiveness of many of the nearby rectangular structures, the dispensary and hospital, the weather station surmounted by a globular dome, the post office, movie-theater and laundry under one roof, the several heads, ~~and~~ the great mess-hall ~~and kitchen~~ and adjoining ~~kitchen~~ galley, the largest building on the "campus" to which everyone resorts with great gusto for four square meals a day ~~if you~~ counting the midnight ~~break~~ and snacks and meals for late workers, intended primarily ~~and night~~ 1



and ~~the~~ night shifts, <sup>but</sup> ~~and~~ not counting the fore and afternoon coffee breaks, and the cup-that-cheers in the early morning before breakfast, and in the evening after dinner, <sup>or</sup> ~~and~~ <sup>milk and</sup> the assorted fruit juices ~~and~~ <sup>or</sup> milk - almost always on tap. ~~hand and available~~

(4a) > insert (4a)

And not to be overlooked is the multitude of quonsets housing about everything else under the sun - supplies, shops, the geological lab the "wardroom", dormitories for various details, and <sup>the well-filled</sup> bunks house ~~the~~ ~~Vermin Villa~~ "Vermin Villa".

The ~~Wally~~ Support-Force <sup>sector</sup> ~~side~~ of McMurdo is a busy, bustling place, ~~as~~ almost ~~an~~ ~~important~~ industrial city within the establishment as a whole and worthy of a "book" in its own right.



(4a)

The meals are very good. The menus, variety and abundance of food leave really nothing to be desired. The laundry service is good and prompt. The movie shows are well patronized as is the PX when open. The heads are well kept, but overly warm perhaps to offset if that were possible the icy up-draft through the seat openings above the honey buckets. Water hot & cold is in abundant supply.



As busy too, but on a considerably smaller scale, is the USARP/headquarters office where all the wants and troubles of the many researchers and their assistants concerned with the ~~physical~~ earth and life sciences, come ~~home to~~ for attention and solution. Here ~~are~~ numerous records, charts, briefings,

scheduling of flights, ship and land transport for ~~the~~<sup>N</sup> civilian personnel are projected, reconciled, ~~and~~ kept up-to-date, and all contacts with

Navy ~~support~~<sup>personnel</sup> ~~and~~ ~~services~~ are handled by an office staff of ~~the~~ "Bob" Mason, and "Bud" Skinner. ~~They do not~~

~~also~~ <sup>also</sup> ~~keep~~ in touch with Washington, ~~do~~<sup>make</sup> their own typing, aided by a copying machine, and a single clerical assistant.

check and  
ada

a truck driver and shorekeeper

at Butler Bldg.



Foot note:

Bob Mason has turned in a wonder-  
most commendable  
~~but~~ job, ~~not~~ ~~only~~ in attending to  
the multiplicity of wants of the  
scientific personnel in the laboratory  
and in the field ~~but~~ in his dealings  
with the Navy.



Under the ~~main~~ roof with the office but separated from it by a usually tightly bolted door, ~~and~~ with its separate outside entrance, is a ~~room~~ lounge comfortably furnished for relaxation, conversation and reading, with well filled ~~shelves~~ <sup>Technical</sup> miscellaneous literature, ~~and~~ recent files of pertinent periodicals, and magazines as current as the mail service permits.

Within <sup>is</sup> the new Butler Building housed an extensive range of supplies — field, and in part laboratory equipment, boots, shoes, clothing, underwear, sleeping bags, emergency rations, photo-chemicals, paints, tools, boats, a station wagon, portable generators, fish traps, carpenter shop, stationary, and what not.

from  
over

Actively being installed at the time of my visit were tiers of steel shelves on which were being rapidly organ-



no para,

Much of his miscellany had been stacked and piled here and there in this vast warehouse, on one floor or another, apparently in some haste to get it quickly under cover.



There ~~was~~<sup>should</sup> be 9

At the rate that the  
~~things were~~ work was  
progressing, by



22ed Byrommard ed 24th com



(at present)

The Bio-Lab is a — foot long structure. The ~~east~~<sup>western</sup> entrance ushers me into a well-lighted and comfortably warm building. In ~~the~~<sup>its</sup> first section, when not engaged in active field studies, several teams of researchers ~~are~~<sup>may be</sup> in "residence" as was the case when I arrived. First on the right, Colin Frearson and Owen Wilkes both of Christchurch, New Zealand, working over Berlesing as I would say, and sorting, samples, of soil, gatherings of mosses, ~~with~~ lichens, and bird nest debris for their respective entomological faunas

To the left an available table which was placed at my disposal. Here too was a Marchant calculator used from time to time by various ~~the~~ investigators.

Beyond on the right a niche in which Drs. Hagostski, and ~~Wittens~~<sup>Linkins</sup> did their "home work", ~~and~~ reports and such when not gathering data



for their <sup>project</sup> ~~at~~ Lakes Bonney and Vanda.  
~~A serious minded, dedicated, hard~~  
~~working team.~~

To the left <sup>was shelving and</sup> were <sup>storage</sup> shelves ~~for~~ chemicals,  
~~containers~~ <sup>miscellaneous supplies</sup> and small pieces of equip-  
ment, a standard laboratory table,  
and a little desk or stand,  
sandwiched in between the <sup>table</sup> ~~space~~  
assigned to  
working on....

Farther on,

~~Next~~ on the right a laboratory  
sink, and farther on a very fine  
library of technical literature, current  
scientific periodicals, a reprints  
file, and bound sets of the publica-  
tions, usually quarto, and monographic  
in scope of the various Antarctic  
Expeditions, ~~mostly~~ British, Australian,  
French, ~~and~~ German, and Belgian,  
along with a number of ~~narrative~~  
<sup>narrative</sup> accounts of ~~and~~ more or less  
popular <sup>Antarctic</sup> accounts of these and  
other expeditions, including ~~the~~  
~~the~~ <sup>The Deep Freezes!</sup>

no  
water



# ~~Between~~ Between the first and second ~~major~~ <sup>sections</sup> of the Bio-Lab. is a ~~large~~ <sup>small</sup> shop, and tool repository, with odds and ends of materials of divers kinds ~~for repairs~~ <sup>making</sup> or ~~as~~ constructing ~~the~~ needed ~~apparatus~~ <sup>accessories</sup>.

First ~~in~~ the second section ~~is~~ <sup>“rocking”</sup> is a culture chamber over seen by Messrs Mason and Hobbie. Their interests occupy about half the length of ~~the~~ <sup>portion</sup> of the laboratory. ~~On~~ the opposite ~~sides~~ are first a refrigerator, ~~lab~~ <sup>omkory</sup> sink, <sup>water</sup> still, and several tanks, round and square ~~for~~ <sup>low</sup> ~~temp~~ <sup>(normal)</sup> temperature ~~holding at 25°C for metabolism~~ <sup>constantly</sup> stirred by electrically driven rotors ~~and~~ <sup>Here the experimental</sup> ~~metabolism~~ runs on fish are performed, but not while <sup>I was present.</sup> Beyond the ~~the~~ Hobbie-Mason section, T. S. Bunt was busy with productivity studies, concerned



in great measure to not primarily <sup>⑨</sup>  
with the abundance, growth rate, and  
kinds of phyto-plankton living on  
the under side of the shelf <sup>and sea</sup> ice. I  
was much impressed by what he  
is trying to do, and would like to  
see his studies continued and  
indeed expanded. ~~as I feel they~~  
~~should~~

Opposite Bunt's corner are  
~~first~~ several pieces of apparatus,  
instruments, for determining the  
Carbon 14 (content?) of his samples  
as well as those collected by Mason  
and Bobbie. ~~which~~ <sup>in addition to those</sup>  
~~the readings made here of their~~  
~~field collected samples, are also~~  
running tests on the ~~cultured~~ <sup>from</sup> cul-  
tures held in the culture chamber  
~~referred to above~~ are made here.

Balances and chemical hoods  
are in the left <sup>hand, east end</sup> corner of  
his section of the laboratory building.



Next ~~comes~~ <sup>is</sup> the dark room and photo lab at the end of this section ~~or~~  
<sup>no para.</sup> ~~First~~ in the Third section of the laboratory <sup>building.</sup> ~~followed by~~ <sup>this is</sup> a roomy, constant temperature cold ~~chambers~~ <sup>chambers</sup> used by ~~Bunt and others.~~ Opposed to these is a space he use of which I do not recall at the moment, ~~but~~ <sup>It</sup> adjoins an office ~~space~~ <sup>area</sup> with a typewriter, <sup>(much used)</sup> by many people when not being used by the Laboratory director, as it quite constantly is when he is in residence. <sup>(Stout many supplies are stored here)</sup> ~~are available here.~~

The door at the <sup>far</sup> end of the lab opens onto a ~~runway~~ short passage ~~way to the south, making~~ leading to the ~~outside an exit~~ <sup>opposite</sup> ~~by the shortest~~ <sup>USARP</sup> path to the head-quarters <sup>(the entrance)</sup> ~~in~~ <sup>Beyond</sup> the ~~far~~ side of this passage is a quonset-hut-type ~~of~~ extension



of which

13

add  
a  
b  
c

~~These~~ on the floor and shelves are  
~~placed~~ <sup>stored</sup> <sup>collecting</sup> heavier gear, nets  
of various sorts, a considerable  
quantity of hydrographic equipment  
~~both~~ <sup>reserve</sup> ~~the~~ <sup>the</sup> ~~supplies~~ <sup>stocks</sup> of larger  
and otherwise ~~too many~~ and ~~too~~  
~~bulky~~ and ~~too many~~ for storage  
the shelves in the first section of  
the biolab where miscellaneous small  
stores and supplies are kept. They  
occupying about the third of the  
the ~~far~~ end of this quonset <sup>length</sup>

beeds  
on up  
may  
impch...

Side  
reg.  
as in  
this  
hills

The ~~far~~ <sup>unoccupied</sup> end of this hut <sup>was being</sup> ~~serves~~  
as a <sup>carpenter</sup> ~~work~~ shop for construction <sup>of</sup> ~~additions~~  
~~trunk~~ boxes, and shelving <sup>which</sup>  
is being constructed for <sup>the storage of</sup> gear tem-  
porarily stored on the floor.

and packing  
cases for departing  
boxes and crates.







~~considering its size,~~

(136)

with a very wonderful ~~commendable~~  
lot of reading matter.

At the head of "main street" <sup>sounds</sup>

~~Perhaps there should be mentioned~~

The Chapel ~~and~~ a restful quiet place

and its fine library <sup>has</sup> ~~with also with a~~

wonderful and ~~for~~ large <sup>selection</sup> ~~array~~ of

books, <sup>in</sup> of all <sup>sorts</sup> ~~categories~~, fiction as is

~~to be expected, and needed in~~

~~far a way a place out numbering~~

~~was~~ the non-fiction volumes. Both here



and in the dormitory lounge there  
~~are~~ is a commendable <sup>number</sup> ~~selection~~ of  
books dealing with Antarctica and  
~~a number of also covering the Arctic.~~

the Polar regions, North and  
South



Musings

Things as they might be 14

In the main the physical plant  
and services rendered at McMark  
is top flight.

~~Yet Left much to be desired.~~



The various buildings of the ~~Support Force~~ <sup>most of</sup> ~~the Navy's end of things~~ I can say little ~~for~~ <sup>about</sup> ~~of personal visits to their establishment~~ have little to say. Their various buildings seem to serve <sup>well</sup> their several purposes ~~well~~ from dispensary ~~the~~ ~~shops~~ to ~~the~~ <sup>the</sup> shops. The meals and laundry services, <sup>the Navy provides</sup> very good. I would say the menu's, ~~and~~ variety and abundance of food leave really nothing to be desired. The movie shops <sup>are well patronized</sup> and ~~the PX are well attended during~~ <sup>as is the PX during their open</sup> ~~business hours~~. The heads are <sup>overly warm</sup> well kept <sup>perhaps too warm</sup> <sup>as if heat were possible</sup> ~~to offset the~~ <sup>to offset the</sup> ~~hopes no doubt I might be~~ <sup>through the scarf</sup> ~~tremendous cold drafts over~~ <sup>above</sup> ~~the~~ <sup>hot and cold</sup> honey-buckets. Water <sup>supplies</sup> ~~supplies~~ every-where <sup>in</sup> ~~seem~~ ample <sup>McMurdo's</sup> ~~supply~~ <sup>plant</sup>. So much for the physical ~~setup~~. It is adequate and in some directions ~~lavish~~. ~~Any where in the world~~ ~~there can always be~~ ~~one can find room for improvement~~ and so in some directions here too.



In the Laboratory some disappointment was voiced over the difficulty or delay <sup>occasionally</sup> encountered in trying to get small construction jobs, or repairs done in the Navy shops. This ~~may~~ points up the need of having some mechanically competent help assigned to the Laboratory.

In the course of my brief visit, five fish traps were rushed to completion for me in those same shops when the sailing date of the "Staten Island" was unexpectedly advanced. Bob Mason's intervention and <sup>my being</sup> ~~his~~ introduced <sup>by him</sup> ~~me~~ to Lt. Tate in charge of the shops, helped mightily. The Lieutenant admitted that he was short-handed and could not always attend ~~to~~ to Laboratory wants as speedily as ~~was~~ ~~desired~~ ~~there~~ desired because of prior Navy demands. He



welcomed the idea that he should have more help. <sup>It is necessary if</sup> ~~so that~~ ~~it~~ ~~is~~ ~~to~~ ~~give~~ ~~the~~ ~~laboratory~~ ~~at~~ ~~the~~ ~~moment~~ ~~it~~ ~~would~~ ~~like~~ ~~to~~ ~~have~~ ~~it~~ ~~was~~ ~~to~~ ~~be~~ ~~arranged~~ ~~would~~ ~~it~~ ~~not~~ ~~be~~ ~~better~~ ~~to~~ ~~have~~ ~~three~~ ~~qualified~~ ~~Navy~~ ~~mechanics~~ ~~—~~ ~~carpenter's~~ ~~mate,~~ ~~machinist's~~ ~~mate,~~ ~~electrician~~ ~~—~~ ~~electronics~~ ~~man~~ ~~assigned~~ ~~to~~ ~~USARP~~ ~~activities,~~ ~~to~~ ~~be~~ ~~available~~ ~~though~~ ~~to~~ ~~the~~ ~~Navy's~~ ~~engineering~~ ~~department~~ ~~when~~ ~~their~~ ~~services~~ ~~were~~ ~~not~~ ~~needed~~ ~~by~~ ~~the~~ ~~Laboratory~~

Can it ~~be~~ ~~arranged~~ ~~would~~ ~~it~~ ~~not~~ ~~be~~ ~~better~~ ~~to~~ ~~have~~ ~~three~~ ~~qualified~~ ~~Navy~~ ~~mechanics~~ ~~—~~ ~~carpenter's~~ ~~mate,~~ ~~machinist's~~ ~~mate,~~ ~~electrician~~ ~~—~~ ~~electronics~~ ~~man~~ ~~assigned~~ ~~to~~ ~~USARP~~ ~~activities,~~ ~~to~~ ~~be~~ ~~available~~ ~~though~~ ~~to~~ ~~the~~ ~~Navy's~~ ~~engineering~~ ~~department~~ ~~when~~ ~~their~~ ~~services~~ ~~were~~ ~~not~~ ~~needed~~ ~~by~~ ~~the~~ ~~Laboratory~~



On the whole McMurdo could stand some sprucing up. One of the worst features is the amount of junk metal, and scrap wood, with <sup>invariably</sup> protruding nails littering the "streets" and walkways — strap-iron, wire of all descriptions and lengths, pieces of galvanized cable, tie or anchor rods, iron stakes, broken equipment, junk of all kinds, and <sup>this trash</sup> rocks large and small. Most of ~~it~~ could be hand gathered without much loss of time. A power-rake, mobile magnet, or even a tractor-scoop and sieve as used to sift the sands on some California bathing beaches would help. (The rocks and stones could be crushed and returned to the highways as road metal.

Why not promote decorating the sides of the drab greying buildings with murals? There must be plenty of talent about, ~~that~~



(18)

judging from the cartoons that  
turn up from time to time. The  
large cartoon ~~on~~ hanging in the  
passage way to the mess hall  
would be an even greater hit if  
transferred, life size and in color,  
to an exterior wall of that hall, or  
to the exterior of the movie "palace".  
have been made

Some attempts at brightening  
up some of the huts. There is  
one with a Totem pole out front.  
Others have added plaques and  
succinct name plates, but what  
could be more lively and en-  
gaging than a good cartoon-  
mural.

Whether the available, or latent  
talent among the inhabitants would  
rise to the opportunity of so employ-  
ing its ~~spare~~ <sup>leisure</sup> time or not, a  
prize or prizes for the best jobs  
could be a great stimulus. Spaces  
is an open question, but



on which to go to work could be determined by lot, or assigned by the judges<sup>#</sup> on the basis of designs or preliminary sketches submitted in competition. Unwanted murals can always be painted over, also if suitable space gives out, but there are enough building sides to last for a long time to come.



~~There is~~

From the little I have seen of Ant  
arctica, and McMurdo in particular  
I believe each man should have a  
room of his own. ~~It~~ Could be a  
small cubical ~~with~~ 8 feet square  
a bunk with <sup>4</sup> deep drawers and  
locker at one end under a book  
rack above a locker, and ~~combing~~  
~~des~~ writing desk and bureau.  
a window <sup>or</sup> ~~and~~ porthole, and a  
door.

~~stuff~~

~~I do not find much~~

each man his room idea  
~~The one man do~~



The door "latches" on the USARP buildings maybe of clever and economical design, but are not as practical, or as efficient in making a snug closure as those on some other structures, <sup>McMurdo</sup> <sup>over #1</sup> ~~These~~ <sup>present "latches"</sup> could at least be tightened up a bit, and be provided with stops preventing the handle from turning completely over every time it is let go <sup>over #2</sup> ~~is~~ <sup>ineffective</sup>. Some doors have stops ~~so~~ that may jam the ~~latch~~ handle.

<sup>over #3</sup> ~~entry ways or~~

All restrooms should be provided with some sort of light, or window. ~~As of now~~ from bright sunlight to dark entry. <sup>Passing</sup> ~~Often~~ various articles, packages, ~~making~~ <sup>shoes or boxes</sup> are stored in them. Also <sup>to see the things</sup> ~~the floors of these entries~~ should be ~~metal~~ <sup>gratings</sup> ~~so that the dirt~~



~~For an overall~~ ~~more~~ ~~are~~  
~~So spruce up the place it would~~  
~~appear thinks that~~ ~~fast.~~

~~Moral~~

~~sprucing up of the place~~ ~~(building)~~ ~~for instance~~

Over  
#1

The weather facility has a very fine  
door closure. ~~How expensive~~ ~~too costly~~  
~~Does it cost too much~~

Over  
#2

a stop to halt the upward swing  
of the handle and one to stop  
the downward swing as well. Yes,  
some doors do have stops but  
~~they are~~ some of them are worse  
than none. Being of thin ply  
wood the ~~the~~ "latch" handle jams  
on them instead, adding to  
the problems of a man ~~trying~~  
trying to carry into the build-  
ing a heavy box or bundle.

Over #3



brought in on shoes and boots (22)  
~~a cap~~ be scraped off. and ~~to drop~~  
through into an enclosed area  
or ~~per~~ removable pans in a tight  
compartment or drawer, ~~also~~  
thus ~~there would be no draft~~  
~~through the grating to~~  
~~adverse cutting down the shelter~~  
~~provided by the vestibule~~ just  
before the inside door leading  
into the lab or dormitory a  
cocon mat on which to wipe  
one's feet would serve a good  
purpose, if shaken out occasionally.

~~there~~ { no draft will be occa-  
sioned. The idea is to save heat,  
and ~~at~~ the same time keep the  
lab<sup>oratory</sup> or dormitory clean.



Stooly Clerk - ~~Resistings~~.



No one minds a congenial room mate, or two or more but each scientist should have a ~~separate~~ <sup>of his own</sup> room ~~in dormitory~~ <sup>in</sup> ~~or~~ <sup>in</sup> which to lay out his belongings, ~~to~~ write in private or in which to retreat for meditation. But four or more people in cramped quarters each with a clothes locker and ~~little~~ <sup>nothing</sup> else, ~~no~~ without space even for a writing desk or table however small, gives one a place to sleep but ~~very little~~ <sup>except a single chair & ceiling</sup> in truth very little more. The one man to a room idea has been worked out very nicely for those who winter over and ~~would be~~ <sup>might be</sup> could perhaps be worked out for just about ideal ~~if it were pos-~~ <sup>possible</sup> ~~to grant for each investigator~~ <sup>for each investigator</sup> ~~or~~ <sup>as well.</sup> summer investigator ~~if he could be granted the same~~ <sup>if he could be granted the same</sup> Charcot ~~said~~ <sup>said</sup>



In the dormitories



by means of partitions,<sup>(23)</sup>  
partial and/or movable

In the laboratory some ~~segregation~~ ~~division of space~~ ~~gathering~~ seems desirable  
with ~~regard~~ <sup>regard</sup> to ~~these~~ <sup>the</sup> types of  
~~research~~ investigations pursued.

Though the ~~res~~ workers in the  
laboratory when I was there  
expressed themselves as not  
in favor of the idea, a separa-  
tion of this kind already exists  
in the manner in which the present  
building has been put together  
in traversing the ~~laboratory~~  
from end to end one passes  
through at least 4 doors  
making for some separation  
of the lines of work being  
carried on.

I find support for  
~~partial~~  
this segregation of ~~act~~ labora-  
tory activities in a letter



received from J. Bunt replying  
to inquiries of mine :

"



McMurdo

The "published" Bio-Lab inventory is an impressive document. Here and there, however, is listed a piece of apparatus that cannot be used because some part of it is missing, broken, or inoperative.

Should ~~not~~ such entries be ~~left~~ omitted from

~~the~~ the inventory proper, and be relegated to an appended list, until repairs have been effected.

~~Also~~ <sup>No</sup> dirty, and as such <sup>not readily</sup> unusable items, <sup>or</sup> corroded gear needing oil, or other attention

likewise should be <sup>carried on</sup> ~~excluded from~~

the inventory proper, ~~otherwise~~ <sup>the inventory</sup>

~~records a lot of unreliable infor-~~

~~mation, unless it is designed to list every thing~~

~~on~~ <sup>on</sup> hand, good, bad, or indifferent.

~~otherwise~~ <sup>this is the case</sup> ~~defeats~~ the purpose for <sup>the inventory</sup>

which ~~I believe~~ it <sup>is designed</sup> ~~was drawn~~

~~up~~



How long is ~~inoperative~~ apparatus carried on the "books", before being repaired or discarded? ~~I~~ I hate to say that I did not enquire, but is any account kept of expendable items withdrawn from stock? ~~There must be~~ <sup>probably is</sup>, for I was asked to list what I took <sup>in the way of preservatives and canning</sup> with me on the Staten Island ~~day~~. ~~It~~ <sup>with</sup> It would not be unwise to have the stocks of supplies and chemicals under lock and key, and issued <sup>only</sup> under requisition as is the practice in some ~~the~~ university laboratories. This ~~practice~~ makes possible better estimates for the replenishing of <sup>those</sup> supplies.

Accounts I believe are kept of expendable items used by workers in the laboratory, but a stock or supply ~~clerk~~ clerk should have them under lock and key so that ~~the~~ <sup>the</sup> records ~~are kept~~ <sup>may be</sup> adequate records <sup>may</sup> be kept.



I gather ~~that~~ there ~~is~~ just <sup>seems to be</sup>  
~~too much of the spirit of laissez~~  
~~faire~~ <sup>with</sup>

~~The~~ <sup>A</sup> ~~laissez~~ <sup>faire</sup> ~~attitude~~ <sup>atmosphere</sup> meted out to  
in a lab. is a friendly <sup>care</sup> ~~one~~ <sup>friendliness</sup>, but not always <sup>syndicates</sup> ~~syndicates~~ to  
and ~~apparatus~~ <sup>equipment</sup> on the part of  
the proper care of ~~it~~ <sup>them</sup>  
~~some of those who are fortunate~~  
~~enough to be accepted for work~~

at McMurdo. Twice a Fridgen  
calculator <sup>on the floor of which</sup> ~~which~~ <sup>high</sup> ~~was~~ <sup>high</sup>  
<sup>carries a</sup> ~~that~~ <sup>past</sup> ~~on its~~ <sup>from</sup>  
one side in the portion of the Bio-

lab where I found a vacant  
table ~~that~~ <sup>was</sup> ~~moved~~ <sup>moved</sup> ~~over to the~~ <sup>position</sup>  
~~position~~ <sup>of</sup> ~~left~~ <sup>covered</sup> ~~once~~ <sup>active, current in.</sup>  
table ~~of~~ <sup>which</sup> I used as a desk.

It was left ~~there~~ <sup>there</sup> until I restored  
it to ~~the~~ <sup>its</sup> original location

and covered it both times with  
~~the~~ <sup>its</sup> cover on which was  
pasted a clear and unmistakable  
sign, please replace cover. Once  
it was left electrically ~~and~~  
alive ~~though not being used~~



More emphasis should <sup>be</sup> placed <sup>the taking-care to avoid</sup> <sup>possibility of</sup> <sup>(28)</sup> ~~on the danger of fire.~~  
~~Not enough attention is paid~~  
~~to fire hazards.~~ I do not know  
~~where smoking enters into the labora-~~ <sup>is a source of or conflicts with</sup>  
~~tory and dormitory regulations~~ <sup>those days! Pros-prose</sup>  
~~if at all, but I did observe the~~ <sup>nothing can be done about it in his dorm</sup>  
~~I meaning the hazard of fire because once I~~  
~~use of a newspaper used as a~~  
~~shield of shade of~~  
~~shield so close to a powerful~~  
~~to lamp that it had become~~ <sup>So close as it to the lamp was it</sup>  
~~charred, and was not removed~~ <sup>got charred before I</sup>  
~~rem when I noticed it and~~  
~~removed it.~~ The potential  
danger of its placement and  
removed it.

There are a number of tools  
of various sorts available in the  
Bio Lab but they wander all over  
the place. No body seems to put  
anything back where they got it  
from when through with it. I  
can conceive a constant use on the



part of an investigator of a particular tool, but out of regard to others it should be returned to its place at the end of each days <sup>use</sup> ~~part~~.  
If in constant demand the researcher should furnish his own.



Fire hazard:

For a shield to strong lamps, one assistant used a newspaper, has charred when I called attention to it  
→ smoking is O.K. I guess like but ~~wiser~~ always a hazard

Orderliness

(building) as a whole  
The lab. like McMurdo has grown like Topsy, there is a rough general order in buildings, as with lab. but add. things here and there seem often at cross purposes.

With in Lab. overlapping of activities

soil

murals on buildings <sup>etc</sup> men have



A clean up campaign or  
detail of men assigned to the  
job would <sup>certainly make</sup> ~~make~~ for an infinitely  
better looking place, ~~there~~ might  
the <sup>some</sup> ~~are~~ of <sup>its</sup> bleakness, <sup>dispel the air</sup> ~~and~~ a <sup>dispel the air</sup> apparent  
neglect, and create, it is possible  
a greater pride in the looks of  
the place in the inhabitants thereof.  
who in the summer months may  
~~exceed~~ total all of 1300. ~~thousand~~



(5a)

~~Bob's friendly relations~~

Bob's cordial ~~refugees~~ relations.

~~This~~ made possible my having  
the <sup>fish</sup> traps needed for the Palmer  
land survey ~~turned out to~~ rushed through on  
very short notice, ~~following~~  
~~my introduction by Bob to~~  
~~Lt. Tate engineer in charge~~  
~~of the Navy's McMurdo shops.~~



Because of Bob ~~with~~ <sup>the</sup> ordiat  
relations with Navy<sup>th</sup> staff and  
~~command~~



Do nuthatches survive freezing  
as does the saguaro up north.

Could they not be at least refrigerated  
& brought to states?



The researchers on the job.

While I was there:

They are pleased with the management, deplore the delays and wait for Navy services, but sense the opportunity afforded — I speak now of qualified (prised from) or of equally high ranked investigators

But when it comes to getting undergraduates students in Mr. Murdo quite another problem seems to present itself.

If a professor is willing to undertake a project, ~~and~~ principal investigator he should be present to ride herd (as I express it) on the job) — his students!

For present day American undergraduates, things <sup>being</sup> as they are in America, as a <sup>general</sup> rule I would say under grade, unless exceptional individuals, have no place in architecture.



~~available, ad is working order!~~



Dec. 15 McMurdo

Planes land on ice 3 miles from base

Had to screen off carpenter  
shop had become a free for all



Mc Murdo:

Facilities:



# 1962 McMurdo Inventory

1302 Capacitor .001  $\mu$ F

" " .05  $\mu$ F, 350 Volt. @ 70° + 100° C.

1501 Adding Machine

Calculator Friden (two)

Monroe " (two)

Typewriter. Olympia

" Smith Corona

## Cameras

AO Spencer Photo micro

Zeica (with host of accessories)

Praktica (do do)

Developing tanks, no end.

Photo paper { what is left of	Bovira
2,000	Polycontrast
45.00	Koda Bromide
<u>47,000</u>	Azo

Enlarges, safe lights  
cutter, dryer

Projector Leitz Pradovit.



2303

Blood cell counter  
" counting chamber

2307 Can sealer

Centrifuge + filter with acc. &amp; glass ware)

Interval Lab clocks Time minder elec.

" "

Spring drive

Colorimeter - spectrophotometer &amp; accessories

Condensers Friedrichs

Conductivity Bridge.

De mineralizer, Barnstead model 3D-2

Dessicators (three)

Distilling Apparatus Barnstead (two)

Pyrex (1)

2315 Embedding box (paraffine) (two)

Fan Chromatography (for heating &amp; drying)

Freezer, Quickfreeze 4.2 cu feet

Rexco. 6.5 " "

Walkin. 6 1/2' x 5' x 4'

Furnace, Muffle, Tempco

2318 Heater Infra Red

Immersion.

Mantle

Heating Apparatus

Homogenizer (two)

Kestelute (5)



2319

Hydrogen ion meter Beckman (two)  
 " " " " pocket model.  
 " " Comparator Dellige Pocket model  
 " " " Daylor plastic slide  
 Hydrometer alcohol<sup>one</sup> (11" long) should have 2)  
 Incubator. On hydro  
 " Low temperature, Precision 805  
 " Thelco model #4  
 Inoculation Board Nut'l Apparatus No. 3610  
 Microscope Medical type Spencer (two)  
 " " Bausch & Lomb  
 " Stereoscopic, Spencer Cycloptic (2)  
 " " B + L. (Series W) & (Series SK)  
 " " B + L Zoom type  
 " Stereoscopic, Zeiss  
 " Camera. Leica. (two or three)  
 " illuminator (5")

2323

Micro time.  $\Sigma$  two and accessories

2324

Oven Drying & sterilizing  
 Paraffin embedding

Oxygen Analyzer

Photometer for exposure in photo micrograph

2326

Pump. Centrifugal (two)  
 Vacuum (two)



2326 Reeter "walkin" Bally model 100 cu. ft.

Refrigerator bath, Tempmobile

Refrigerated Freeze mobile Virtis ~~test~~

Refrig. Quick Freeze Brand

" Westinghouse model

Revolution counter (for centrifuge mill <sup>unit</sup> tachometer)

2327 Salinity kit with 3 hydrometers

2328 Sample changer automatic, nuclear <sup>model</sup> ~~Dicast~~  
(Set of Sieves) about 17,

Spectrophotometer Coleman Jr. model 6A  
\$ {with constant vol transformer  
transmittance density scale panel

2329 Sterilizer, Instrument. American, med size

" Portable, Stereotax

" Steam Pressure Elect. American

2330 Stirrer. Friction Drive, elect

" Junior Utility elect

" Magnetic mag. mix. ect.

" Variable Speed, Precip. elect

" Mixing Blender.

2331 Syringing Large animal needles

" (4) 2cc, 5cc, 10cc, 20cc. & lot of needles

of number  
of stirring  
bars



2331

Pank moulded, Polyethylene spiral <sup>with</sup> 30 gal  
 " " " " 55 gal  
 " " " " 55 gal

Pape recorder Hollensak Model T-1500  
 110 v. A.C.

Telethermometer Yellow Springs Model 44 TA.  
 " " " 44 TV.

2332

Tester Volt - Ohm - Milliammeter. Simpson Model

Thermograph, recording Fahrenheit. <sup>260</sup>

(Expendable) Thermometers (25)

Immersion (12) <sup>23</sup>

Max, min 1

Pocket 3

Water bath, 2

Breaker Bureau 1

Distillation, 1

Clinical oral, Rectal (2 each) 2

\*Onschoetz Proctisim.

1

Circular dial (2)  
 Weston.

25

Burette magnifier

← 2334 Timer "Circu hub"

Transformer Voltage regular, Cowatt Beckman

" " " 120 "

2335

Urometer, Squibs

Vacuum gauge

Vacuum tester, High Frequency



2337

Wayburg Apparatus, Bronwill Standard model.  
Water bath Sensor-Utility, Precision  
Water test amparator, Aqua tester, Bellise  
with 6 color discs.

line gauge

Photography  
Am.



Oceanographic equipment

Anchor, Danforth

Boat, life raft, rubber. (2)

Spur Boat 2 man

Bottle Kemmer

Hansen

Salinity (2) [citrate]

Sealing

Vacuum Thermo

Bottom samplers, dredge & grab.

Pflueger Coring bit

Dredge

Balsteri

Symonological, Surber

Peterson } = 2

"

Triangular  
grab (orange peel)

Geo

Symon

Blake

10 x 17 cm samples  
3 1/2' x 1'

2402

Trawl

Chain saw

Compass

Ice auger

"

"

"

"

Sigre



- 2402 Current Meter Ekman  
 " " " G. & M.  
 Dry suit R.
- 2403 Fish traps { 6 cylind. { 3' long. 2' dia. dbl. funnel  
 2 rectang. { 6' x 3' x 3' dbl. frame  
 3000 ft.
- Cable stainless steel 7x19 3/32" dia <sup>pre</sup> 500 ft.  
 " " " 5/32 500 ft.
- Flow meter. Tsurumi & Seiki Model
- 2404 Generator 2 1/2 kw. 110 volt 60 cyc
- 2 helix seals.  
 Outboard motor  
 Plankton net - 11
- Oxygen determination kit
- (2) Plankton sampler Clark Bumpus  
 Thermarine Recorder, Bathythermograph.
- Heep sea thermometer 12  
 " " " 27 unprobed
- 2 { Winch Hydrographic Latham line  
 " " " Model G 50-3008  
 " " " M.
- Handpainted



Until one sees the heavy bulldozers and  
cutters at ~~work~~ laboring up-hill with  
~~the~~ heavy sledge loads, tons of  
acetylene tanks, crated or boxed equip  
and <sup>all manner of</sup> supplies ~~of~~ for man or machine  
does one realize that the nature of  
the ~~s~~ how well ~~the~~ <sup>suited</sup> the volcanic  
sand streets, ~~are~~ for the traffic  
they bear.

No other road "metal" <sup>or surface</sup> would serve  
as well. The vehicles used as well  
for some uphill loads the streets are  
scarcely wide enough for maneuver  
a turn with often recalcitrant  
sledges, which tend unaccountably  
to balk or stick on turns —  
regrettably <sup>(mean?)</sup> ~~maneuver~~ and often sharp.

However there seems little excuse for  
the ~~junk~~ wood scraps and iron junk  
that litters the <sup>se</sup> streets. Straps, wire,  
pcs galvanized cable, tie or anchor rods  
occasional pcs of broken equipment.



runner sledge of acetylene bottles. These rocks and rock fragment could or should be run through a crusher to yield uniform (more or less gravel) for return to roads? Would it impede sledges? if so dispose else where without crushing.



The respectability of the place, the self  
respect and morale of the "inhabitants"  
the establishment would be enhanced by a  
clean-up program. The wire and  
iron scrap can trip people up with <sup>it is possible</sup> re-  
sultant injury but for the heavy foot  
gear worn by <sup>most</sup> every one. The nails  
sticking up right is wood scraps,  
box lids, and pcs of crate slats,  
could be a serious <sup>indeed dangerous</sup> menace to feet.

It would be so easy to pick up  
so much of this waste and scrap material  
that <sup>at least</sup> ~~one or two men~~ <sup>one</sup> man could  
only to pop it ~~into the streets~~ <sup>into the streets</sup> the pride instead of  
drums <sup>almost</sup> ~~the~~ disgrace (perhaps) of McMurdo.

I believe <sup>electro</sup> magnet run over the streets  
would pick up a sizeable amount of  
metal (damn here there seems to be little  
trouble with rust; is this heresay or true)

Also a scoop & strainer as used on  
Coronado beaches could be used to  
get sizeable rocks out of streets these  
impede the hauling, and one large rock  
I believe caused up set of a great fur



Things to study:

Optical properties of ice (shelf and floe)  
angle of light; intensity; photosynthetic  
physicist bur. standards potency

spongy crystalline mass vs. smooth ice  
do crystals aid in light  
dispersal or else magnify it.

penguins go out on flow → feed on  
euphausiids — do these last congregate  
under ice sheet, or blocks more than  
in free.

Dec. 17. Said read to  $\frac{1}{300}$  of degree on Dec. 17.<sup>th</sup>  
Packed up chamber // did run test one night at 2 a.m.  
day after I'd asked for test.  
Seal had come up in hole + upset part of rig  
have found seals in holes, houses, once against  
door + so dried window, at which seal stopped  
in hole.  
one tank. was  
800 l on 19<sup>th</sup>  
20 "  
21 "  
motor was running  
+ pumping.  
Large square tank  
running continually  
whether fish in or  
not maybe better  
so it expected to  
use soon  
Seems to me lack of  
live + dead phytoplankton  
vitalized ~~water~~ sample water in tank. be filtered water.  
Dad asked for seeing meter test  
Ran one at 2 a.m. though I  
was in nearby room till 1<sup>30</sup>  
loud talking.  
Express my disappointment  
when I found him packing  
up chamber. Was this  
only test run after Webb-  
Schuyless  
Also said seal came up in  
hole + upset thing a bit.  
In testing hole.  
fishes are not plankton  
feeders? Should it not



It is to be amended

The U.S.A.R.P. wishes to encourage and further (support) basic research in Antarctica. This is the broad, general over-all objective, ~~but ~~that~~ ~~not~~ ~~all~~ ~~fields~~ ~~can~~ ~~be~~ ~~investigated~~ ~~at~~ ~~one~~ ~~and~~ ~~the~~ ~~same~~ ~~time~~~~ <sup>placing emphasis</sup> that have we in mind in <sup>emphasis</sup> basic research. (giving) <sup>priority</sup>

But what, specifically, does the Program hope to accomplish and in what fields? Should there not be definite goals toward which study or research,

which lines of research should be given priority, in the award of grants and opportunities for study in Antarctica?

The present Program is working in all directions. Any worthy proposal is given consideration and support should be directed

whether or not, ~~and~~ a continuation or further ~~development~~ <sup>is</sup> prior studies ~~are~~ involved

It would seem that continuity of previous lines of research unless brought to full fruition <sup>transcends a variety of lines of work.</sup> should be assured; ~~if~~ <sup>otherwise</sup> ~~not~~ a record

of uncompleted ~~it~~ or of only partially

Proposals should fit into some definite line of action.

look up I.G.Y. early plans  
were not specific objectives  
spelled out herein



accomplished  
investigations will result in various  
lines of research

Duplication of another's previous research is not to be decried, and certainly in some (if not all) instances should be encouraged if only to check upon results set forth in a ~~sampled study~~ study said have been completed, or possibly left ~~une~~completed by an earlier investigator

This is mentioned in good faith and in all ~~honesty~~ <sup>frankness</sup> and with due respect for each researcher's ability and integrity. ~~Human frailty being what it is~~ The human element in any intricate, detailed, and far reaching investigation, with out reflection on any particular researched findings should always be ~~checked~~ <sup>checked</sup> and adequately checked, especially researches carried out under the ~~various~~ <sup>various</sup> handicaps imposed by ~~Andur ch~~ <sup>living</sup> conditions indoors and out.



A broad minded approach should be asked of professors, sending graduate students to Anturchny to carry on researches for which they have accepted responsibility and <sup>a</sup> grant.

If a project is <sup>a</sup> worthy one with which he ~~professor~~ <sup>principal</sup> is sincerely concerned, and ~~high~~ desirous of bringing to definite conclusion he should be willing and indeed anxious to spend full time on the "job" with the graduate students he has enlisted to assist with the proposed research. If it is not significant or important enough to receive his full attention ~~it~~ <sup>it</sup> is ~~scarcely~~ <sup>really</sup> worth the effort and expense in the first place (rather less, but more earnest research than more, widely varied and not seriously undertaken research.

A professor ~~can~~ <sup>can</sup> send competent well trained students to do a "job" but



not until they have



not until they have had an initiation  
of what is involved in living and  
working conditions. To send ~~at~~<sup>a</sup>  
student inexperienced (in Antarctic living)  
↑ without prof in charge riding herd  
would seem to be the height of folly

Indoctrination is no substitute for  
actual personal experience in Antarctica

A professor taking students of his own  
training is carrying with him just  
an extension of his own thinking  
and methods of work. Would it not  
be better that he take recommended  
qualified students, who have majored  
in the same line or discipline, from  
another institute than his own.

Are we training as professor's students  
for him (is it a training school for ~~graduate~~  
students)



or one <sup>(in which)</sup> of serious research in Arabic  
problems is the primary objective



Re McMurdo Equipment.  
In operating condition?  
In use? in good cond.

3 men in charge  
on call

elec  
Carpenter  
Machinist

Thermometer frames  
in Leah (have been  
Mansen/Water/Bottle shifts for  
1 year

name plates on dets

I like Scott arrangement  
of walk ways only should  
be drained, if needed a  
sump pump.



In the short space of time that I spent  
in the <sup>McMurdo</sup> laboratory, truly marvel. of organization  
have been achieved.



~~As USARP~~ Rep For USARP

(15)

"Bob" Mason, has done a wonderful  
job of ~~coordination~~, in public relations,  
~~and in securing~~ <sup>the office</sup> Navy Cooperation.  
Not only in <sup>(multiplicity of)</sup> attending the wants and needs of  
the scientific personnel and their  
assistants <sup>but also in securing the utmost in Navy</sup> <sup>cooperation where his</sup>  
<sup>other goals</sup> <sup>was needed.</sup>  
~~is a~~ <sup>It is</sup> rather considerable <sup>most</sup> job,  
in which he is <sup>most</sup> assisted by  
"Bud" Skinner, and

and ~~the man~~ in charge of the

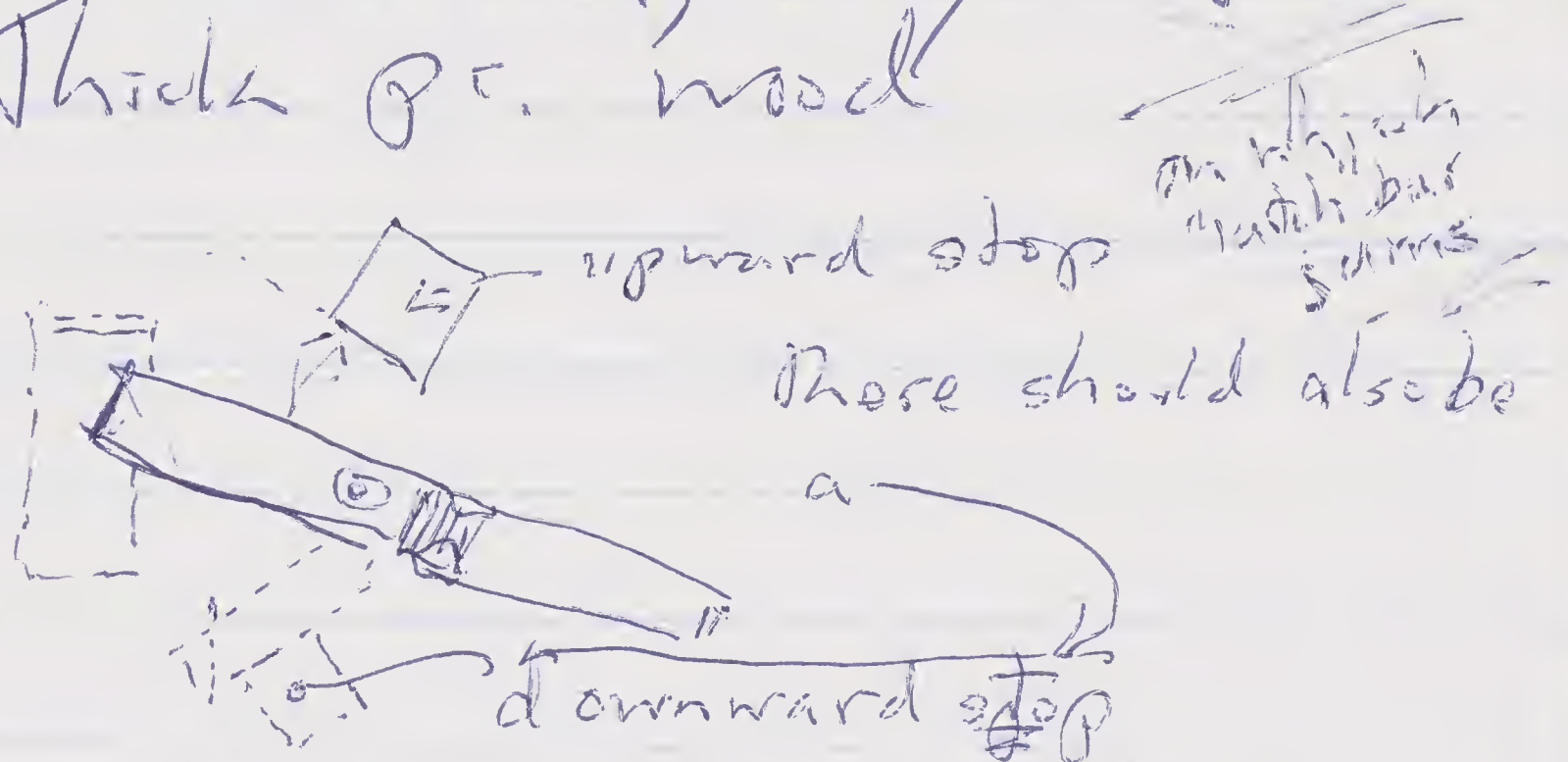
Butler Building.

<sup>The eight traps which I took with me to Parkhurst</sup> <sup>which on very short notice</sup> <sup>to completion</sup>  
The traps ~~that~~ were rushed through

for me in the Navy shops, was due  
~~both~~ to the Navy's desire to serve  
and more prompt, interested efficient  
service I have yet to see, Thanks  
to Mr. Tate, ~~an~~ engineer officer  
in charge of the shops, and Mr.  
Mason's, friendly ~~relations~~ and close  
relation to the Navy's staff ~~and~~ com-  
mand.



door closures are worst  
 kind of make shifts, ideas  
 are good, <sup>but</sup> work like, ~~well~~ &  
 loose as hell stops are  
 of thin ply wood against  
 which "bars" are supposed to  
 stop but they are so thin  
 that "bars" at times jam  
 over them, why not a  
 thick p.c. wood



and decent snug/not ready  
 to come apart bearing.

All these things are taken  
 care of on a properly built  
 organized ship or float,  
 etc.



Window in wall of each entry way; Transition from bright usually sunlight to ~~to~~ extreme

Proper door fasteners, like weather service? Too expensive? Doors should have strong springs or else weights & chains? and latches with reasonably large handles for manipulating. Man often has heavy bundle (or box) to carry

Movable partial partitions in labs, to delimit areas

requisition system for supplies and some orders among <sup>Reqs</sup> <sub>Reqs</sub> Chemicals are in good order any not in stock or reserved from previous year - could be



Rich ①  
Rutger 501 ①  
Eastwind ①

This list McMurdo Sta

Wis. Limnology 3

Wis Ground

Bishop Mus

U. Cal. Limnology

Wisc. Penguin

McMurdo  
total = 30

Taylor Gl. 2

Byrd Travers - 4

Crozier — 2 3

Shukelton Gl. — 3

Pole Traverse. 8

Mt. Weaver 5

Pensacola Mts 6

Roosevelt Id 6

Vano East — 4

Ross Ice Shelf 6

Sentinel Mts ⑩ Alaska 6 ②

In field  
64  
Other  
Sta. 56  
150



Bldg 108

1 Osicki

2 Johnson (Dwight)

3 Bell

4 Roblante

5 Laird

6 Baultle

7 Masan Bob

8 Thompson

9 Layman

10 Wallace

11 <sup>Blank</sup> Moulton

12 - Byrd

13 - Byrd

14 Schmitt

15:

Bldg. J. 1

J 20

Berg  
Vogt  
Mason

Reideman  
Wilkes  
Hobbie



New Zealand  
Rich  
East wind  
Willey, F. J.  
Rutger Soil  
Ugolini

Wisc. Linnoli  
Rugotzkie  
Lakens  
Renirie

Wisc. Ground  
Berg  
Rogt

Wisc. Penguin  
Robert B  
Penny R

---

Alaska geol  
Forbes  
Ester

---

{ Crazier  
1 Woods B  
2 Penny

Mt Weasels  
Summerson



①

McMurdo, Is a stupendous - almost overwhelming place - First impression on approaching it from the ice - a mining <sup>town</sup> camp. <sup>(\*)</sup> Great buildings in all directions in great numbers, of varied materials. In over all view has grown like Topsy.

Streets look black and grimy and are in fact far too trashy. The streets of volcanic sand are in a state of being churned up by giant tractors which with the great loads they haul have scarcely room enough between the buildings to operate.

Buildings as it were seem broadcast over the landscape.



Relief from the monotonous <sup>and dirty dark green (parva)</sup> color <sup>a drab grey (2)</sup> is given  
by the overwintering dormitory a bright  
and cheerful green, the Butler Building - shed  
and warehouse, huge in comparison, a bright  
red barn.

With the duller Bio Lab) and  
headquarters and lounge building <sup>tending</sup> giving  
a note of substance and well being to the  
back ground.

With its picture windows, and end porch  
for all the world like a converted R.R. car.



are as if were broad cast over  
the land seas.

The buildings should have more color <sup>③</sup>  
some attempt should be made to brighten them up.

Suggested is murals on their sides

The long mess hall for instance - the heads and other buildings with sufficient lateral areas.

of the type now hanging in the mess hall entry. <sup>On duty</sup> artistry by local (competent and serious) inclined talent should be encourage, as a morale and interest builder coequal with <sup>dean</sup> <sup>streets</sup>



(4)  
The dusty, grimy, uninviting streets need  
policing in the worst way. The trash lines  
the streets is neither conducive to individual  
self respect, or for the community as a whole.

strap iron <sup>pcs</sup> ~~able~~, galvanized and other  
wise, wire nails & metal parts and fragments  
wood scraps, often with protruding nails,  
that could be dangerous but for the heavy  
soot gear worn by most of the inhabitants.  
In use by most " " " "



Inventory, is impressive and elaborate, <sup>⑤</sup>  
elaborately impressive — seems to  
cover a multitude of things and sins.

One has to read, carefully discovers  
that <sup>some</sup> pieces of important equipment lack  
significant parts, for which no replacements  
are listed.

There ~~is~~ inventory proper should  
only list what is in good serviceable  
(useful and ~~is~~ operating condition) and  
available. A second <sup>or supplementary</sup> ~~inventory~~ <sup>or just list</sup> should  
might list things not useable <sup>because of lack of parts</sup>



On the plus side  
Abundance of supplies  
of various ~~sorts~~ ~~sorts~~.

Is it looseness of designation  
on my part.

second man who bagged  
and stapled it.  
Formalin + Formaldehyde  
~~common + chemical names~~

Need a requisition system → I do believe in  
most universities such a system is customary  
which not here most researchers are Univ.  
sponsored (or not?) Or have Univ. gotten  
slack in their care of equip + supplies.

On the minus side  
Things listed and giving  
impression of being in  
stock and ready for use  
but are not. ~~They~~ not  
purely a random selection  
from a carton full.

Did not examine  
whose fault or neglect  
first man who used it



Two x four for cable on floor. Could it ②  
not have been fished under floor, or  
run up to ceiling.

Tools seldom seen to get hung up in  
place (on ship when tin snips was wanted  
was checked out from shop.) It seems  
that each day tools should be replaced

Great progress has been made in organi-  
zation of warehouse



| Inventory of apparatus  
on hand and in working order

| Available collecting gear  
also where withal to make  
up nets and traps of various  
kinds? Lines, floats, sinkers, traps

| What about boats in light of  
what has been available to  
you.

| Have you <sup>around lab, etc</sup> from talk gathered  
any info, as to where a bio lab  
might be advantageously  
placed?

| Any major lines of research  
other than ecologic-systematic  
that it would be desirable to  
further (advance) or initiate?

| What in light of your personal  
experience would you like to  
see undertaken? To continue

Should I try to buy local <sup>fish</sup> crab  
or lobster pots?



Wohlschlag nr 10:10

Sunday at 2 p.m.  
Picnic supper  
+ see some of Rd

Next Wednesday  
Evening Camera  
show

\$5 for prize best  
picture of ChCh  
at night

Order. View of city  
from hill but best  
most characteristic  
picture is given

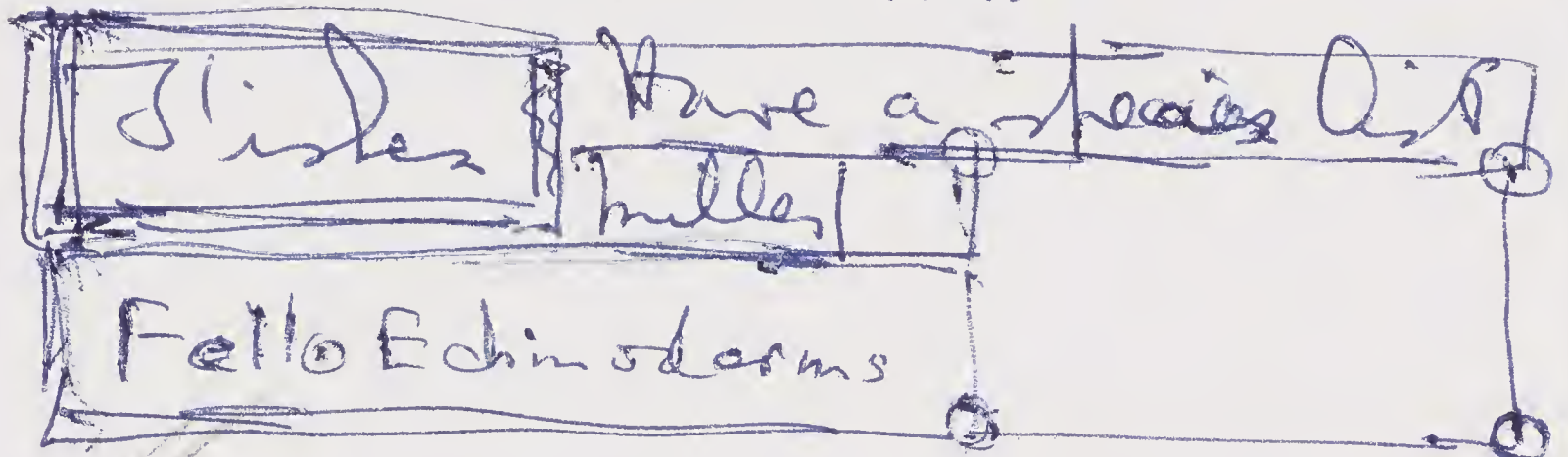
of judges selected  
by Suncelf committee  
of discreditable

2 deep freeze books! welcome to!!!



Ross Sea Flanna

Station collections



Float Station



Cinematographic behavior  
fishes and marine invertebrates  
Bahamas, 1961



Handwritten signature: *John H. ...*

John W. Jones



The great for good  
will + support (verbal) it  
give a lot of help, a lot  
a 10 days in an Antarctic  
Dapting  
the package + relation  
between the humans as  
addicted to  
but is it worth it  
scientific + financial

Should have a real  
letter of it

And above all ridge  
Read on should



Fire hazard  
Next man ~~has~~ waste baskets  
full paper & beer cans or running on floor reads paper

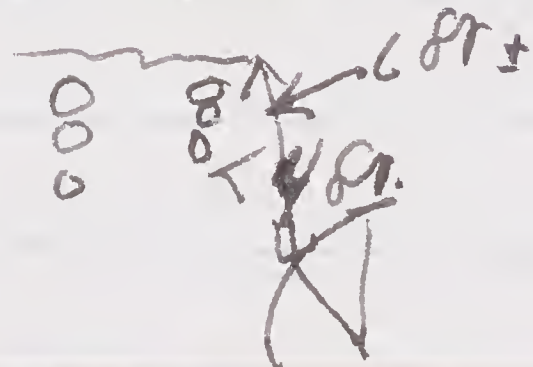
Trash all over place wire  
strap iron, cables even, stakes  
and rods sticking up out  
of ground; every body seems  
to think it's none of their  
business and in a sense it  
isn't.

News paper propped against  
light touched one and 1/4 inch  
or less from other, to shield  
reading



magazine  
from too bright

light, should have turned back  
to lights + <sup>men</sup> 1 ~~2~~ paper would  
be needed. To go out and  
leave paper in that position  
a draft might have blown it  
over/ door crack opened  
up on it & was most  
used do





Hope Bay / Argentine Base is  
on Penguin rockery which ex-  
tends far beyond

19th Western side near  
South end great  
valley in middle =  
rather flat spec about 11  
rise, perhaps nearly this  
at base, not larger  
at perhaps slight-  
smaller was taken by  
Tom Berg

It won't grow perhaps  
research is after all  
study in studies case  
is after all not  
unimportant. This part  
spread him over country.



What materials did  
you collect ~~materials~~  
been done with the  
availability for other  
to study. ~~things~~ <sup>about</sup>  
have been written

---



On door says Visiting Hours  
1600 - to - 1800  
ONLY

Your cooperation is requested  
Signal Laboratory Personnel

Then when you get inside  
Radio is going (? I am  
not sure but what this was  
during visiting hours need  
check. However when going  
could hear over nearly whole  
lab. some of it was  
very disturbing.

Tools on floor square power  
saw, box near by, scraps  
of lumber <sup>+ saw dust</sup> not brushed up  
whole time I was there, hand

Saw lay on floor <sup>also measure tape</sup> nails in  
~~or~~ boxes nearby everything  
is terribly scattered around

later just before 17.00 we all along  
made sure you the workers had  
done all the work



ordered and should be paid  
for by user. <sup>All proposals have</sup>  
Equipment & Supplies <sup>item</sup>

# Specimens pickled in formalin  
in physiology area. I was  
asked to do it in Lab.  
building even for fear that  
swimmers might be inimical  
to proper test

Ident by fish (pictures)  
largely; no keys available?  
except in partially illus  
books Regan - Norman.  
Photos should accompany  
keys and drawings and  
if possible album of color  
plates (Parker Flowers style?)

"Streets" are full of strap  
iron, gas cable from  $\frac{1}{4}$  inch  
in dia to an inch  $\pm$ .



There ~~are~~ should be honey buckets  
with each dormitory at  
least two (or more).

Seems to me that heater  
vents, and feeders of air do  
flames could be rigged to  
make a down draught in  
sewage "holes". Should be  
tried! Hear that hemorrhoids  
are a serious problem.

One man carried 3 tins  
(kind used for parachute  
drops for bathing rear  
end in warm water).

Also by honey but small  
very small basin for hand  
washing & tooth brushing/as  
in Pullmans for shaving  
could insist on electric  
shavers if any shaving is  
done on part of grantee.

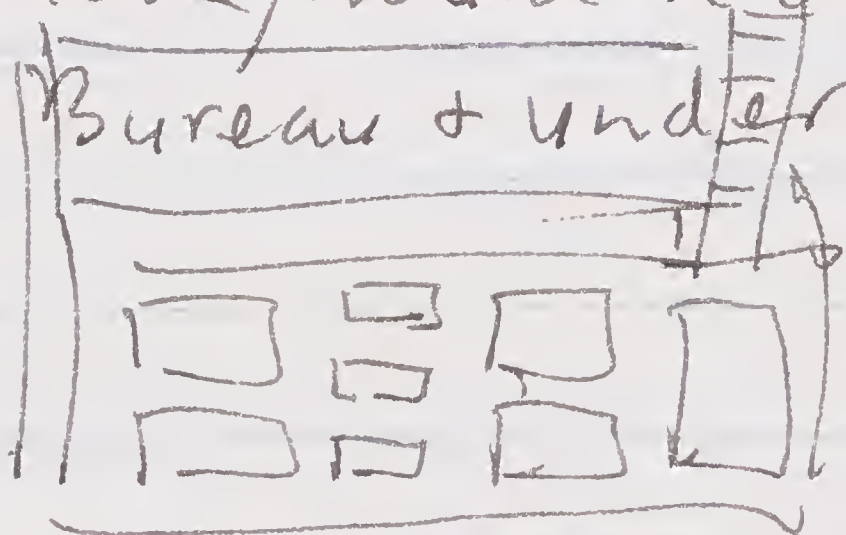


Fish traps of two metals gal.  
iron + copper don't last (gal.  
vanic action.

Fish traps → frozen bait masher  
one funnel. This true trap  
with no masher two functional  
funnels had no fish in it &  
one with masher funnel one  
end had dozen, & 2-3  
small starfish & 1 crinoid }

No place, even in room, to  
lay out things (no table)  
or ~~store~~ store or preserve  
specimens!

Rooms need table (and or  
desk) would be cheaper than desk  
Bureau + under bunk drawers





Lab In parts in indescribable confusion

Found large shears on floor in  
shed next coil of rope some  
body had cut some

Wohlschlag how many weeks  
(mos. at Sta.)

Snow melted by Solar heater sun on roof

Recent door latches

Rooms 7-8 ft. square

Navy orders  
Sigh in box

Suggestions for

Recreation Committee

below some body had written

More Women!

Under grads. out of place

~~went~~ along but got tired  
were told after being given perm.  
to go (exploring) walking to stay to  
gather, later one came in 3 hrs  
after 1st was found asleep in  
tent.



Lab needs service help  
Gate - Navy should have at least  
3 extra men on whom Lab  
had first call ① Machinist  
② carpenter ③ electrician unless  
on can handle in Gate ~~welcomed~~  
the idea that he should have  
more help if he is to give us  
the support that we would like to  
have

(Vermin Villa) the day before

~~I had asked to see a metabolic~~  
~~test~~ ~~it~~ was up ~~that~~ <sup>night</sup> ~~still~~  
1:30 a.m. They did it at (They ran the last one)  
2 a.m. & then dismembered  
& packed up the rig to send  
it back to Stanford. Seems  
a silly business to ~~pack it~~ <sup>ship</sup>  
that chamber back, and forth  
(What does one cost to pro  
duce?)



Greatest lack here room to  
work or retire to. If bunk  
room had table & desk like it  
would be fine, though small is  
warm & comfortable & saves  
hanging priest case back and  
forth.

Came out Nick ~~March~~  
and the ~~mid~~  
Feb. I read about  
what Chaparral had  
said



Entry-ways or vestibules to Bio-Lab, and dormitory. should have window for light transition from bright <sup>sunlight</sup> to dark and vice-versa too extreme at times

Proper door fastener or latches. Weather service has better ones. Are they too expensive; are they trouble free. Doors should be man. designed for easy opening for opening when carrying box or bundle  
Doors should have strong springs or weight & chain



... Who's doing what at  
McMurdo Station McMurdo

Rich

1

Eastwind

1

Rudgers Soil

1

+ Bela  
Csejtesy

Wisc. Limnology

3

" Ground

Bishop Mus.

Insects  
plants in water  
culturing

U. Cal. Limnology

Wisc. Penguin

Taylor Gl.

2

Shakleton Gl.

3

Byrd Traverse

4

Crozier

2

Pole Traverse

8

Mt. Weaver

Pensacola Mts

6

Roosevelt Id.

6

Topo East

4

Ross Ice Shelf

6

Sentinel Mts

10

Alaska Geol

2

Total:  
150

McMurdo total: 30

In field

64

other  
stations  
56



New Zealand:

Rich

East Wind:

Willey, F. J.

Rutgers Soil:

Ugolini

Bela Csejtesy

Wisc. Limnol:

(this is physical and biological)

Ragotski

Likens

Renirie

Wisc. Ground:

Berg

Yogt

Wisc. Penguin

Roberts, B

Penny, R

Alaska Geol (inclusions)

Bob Forbes

Ester

Crozier

Woods, B

Penny,



Bldg 108

- 1 Osicki
- 2 Johnson (Dwight)
- 3 Bell
- 4 Rotolante
- 5 Laird
- 6 Battle
- 7 Masen (Bob)
- 8 Thompson
- 9 Layman
- 10 Wallace
- 11
- 12 Moulton
- 13 Bunt
- 14 Schmitt
- 15

Labels for  
People

Identify people  
& work

Summer  
People  
Clip in glasser  
(Provide am)

(+ Hobbie in S. 207)

in

Bud  
Skinner

Bldg 11

Berg

Vogt

Masen

J. 20

Reideman

Wiss. & ad.

Hobbie

Wilkes

(Hobbie works  
with Masen)



Get Alexander's Birds  
of Ocean

---

Oil skins at wharf.  
& Kakis house

---

Mo Hugh

---

Fisheries re crab &  
lobster pots; lead & lead  
describing

---

wood or wine  
weighted

---

Hodges for extension

---

write letter get endorse-  
ment from Blanco

---

Passport



George:

Traps

wire ahead

|| McMurdy  
N. Zealand

What materials to  
bring from N.Z.  
If any would like

6 traps

Will there be line &  
sinker aboard?

Stutus report #44

Stanford Univ  
63 Fish in traps



Plankton nets 2 or 3

Electric light over side?

Fish traps or lobster pots.

Dip-nets lge + small

? Nylon gill net.?

Dredge (Bartsches little)

Thermometers

Geol. hammer

Forceps lge + small.

Sieves?

Bottom sampler or grab.

Formalin (neutralized?)

have Don Squires fix.

Plastic vials

Bags.

Webbing

Note book

Paper.



Conger nets & gear?

Make collecting outfit



Collect outfit

Buy nets; order traps

Nylon dip  
nets

Geol. hammer

Hand lenses

Field Glasses

Dredge?

Vials = plastic bags

Formalin neutralized

ask Don to  
prepare

Geol. hammer

Forceps

knife - scalpels

Pape

stone

bottom  
sampler

Whale Book

Fish " ?

Bird " (Alexander)

Crustacean acct which one or  
list.

Echinoderms?

Did Wholschage

Have him fill one out  
get Dixie Ray Quest?



Generally it is true surgical services' recommendation that inguinal hernia be repaired but not on an emergency basis. Although it is unlikely that the patient will experience complication within the next few months we cannot with assurance say that he will be free of symptoms or complication.

Exam. of the (L) inguinal region reveals a moderate sized (L) inguinal hernia which can be held at the internal ring. L. Breitenneider



See Onger, =  
re nets and gear

Get Alexander Birds of  
Ocean  
Falkland Id. & Shetland  
notes

Turbox nets

~~Have 4 pp. of recommendations  
written & copied~~

Proposals by subject  
as well as man and or  
sponsor?

How many people, proposals  
and years given so far  
to Penguins; and obligated  
to for future on Penguins {after  
wards



# Binoculars

4 Nylon dip nets

Turtox

1 tow net

~~4~~ gr. Forceps long

2 pr. cotton "

3 one pound bottles

Hexamine

Nylons bags and or  
tubing

4 spools adhesive tape

2 boxes rubber bands

1 fiber case:

Note books

2 ball pt. pens

Read glass

Hand lens



Nylon gill net. } 16 mm. (2)  
projector

Why not vac. cleaner fish?  
pictures of all common  
invertebrates

Bodys - time dredge get  
radio + elect. direct  
What about series surveys like  
identification program?

Exp. for a year?

How is primary productivity  
related. Means  
and littoral productivity.

Can film be bought aboard?

150 Extra wt (how much total)

What is mesoxenic environment

Coffor dams in lakes  
or cylinders as

dam + dam

see #7 p. 5  
Don't we get any larval fish?

Do not need such fauna

Why is fauna poor in place  
perhaps - offers greater  
challenge



Survivor takes all for  
his or her life time

All assets including sale  
price of house, <sup>if sold</sup> insurance  
investment, Bank books  
& S.H. even though joint  
~~are~~ are to form a  
trust fund for the  
children, to be divided

3 ways in equal parts  
when ~~the~~ <sup>eldest</sup> gets to 25 yrs  
<sup>others to get those shares</sup>

Barbara to have  
all income, dividends  
and interest and like  
from all assets during  
her life time, if she  
cares to have them.



The collections made at  
Govt expense  
we have been accused  
of playing whole hog with  
specimens (collections)  
What about Universities and  
investigators in Antarctic  
to day? Is shoe on other  
foot or not?

---

Chap  
S. J. Morgan

---



Pr. Binoculars and Exposure <sup>meter</sup>

4 ~~Turbox~~ Nylon dip  
nets 2 rectangular  
2 square

1 Turbox Tow net

30 yds cheese cloth (\*)  
(have on hand)

2 pr. rubber gloves (\*)

1 doz canvas bags (\*)

3 doz plastic bags

3 x 8 (Miss Cochran)

1 pc. webbing

1 injecting syringe (\*)  
and needles

2 1-lb bottles

Hexamine

1 fiber case to hold

ca 2 1/2 x 1 x 1

books papers and

coll. gear

(\*) Have on hand.



1 Pr. Bbinz-lars  
1 Exposure meter  
2 Purda dipnet  
2 " " dipnet  
sq.



- 1 pr. Binoculars
- 1 exposure meter
- 2 Turtox dip nets (rectangular)
- 2 Turtox dip nets (square)
- 1 Turtox Tow net
- \*30 yards cheese cloth
- \* 2 pair rubber gloves
- \* 1 dozen canvas bags
- 3 dozen plastic bags
- 1 piece webbing (3x8)
- \* 1 injecting syringe and needles
- 2 1-lb bottles Hexamine
- 1 fiber case to hold books, papers and collection gear.  
(approx. 2 1/2'x1'x1')

\* Have on hand.

Adhesive tape  
Rubber bands  
Iodiform

Fish in freezer



November 16, 1962

Waldo L. Schmitt, Research Associate, S.I.

Antarctica under auspices of National Science  
Foundation

Waldo L. Schmitt

Deep Freeze 63

Zoology



## Under wear:

(2)

Two pair "ankle" drawers } sizes read  
two pair undershirts } ok.

## Light clothing:

Two pair kaki pants are snug 38  
should be 40 (I believe there is no 39)  
if I am to get any kind of  
under wear other than my cotton  
shirts under them plus "sport"  
shirt. Need six bottoms!

Two pair Duxbacks <sup>black pants</sup> are certainly  
too tight should be at least  
40.

✓ Nylon storm wear coat too  
small to go over heavy  
shirt, pants ditto!

## Heavy clothing

✓ White pants too small  
Red quilted "vest" too tight  
Red "parka" coat, seems plenty  
large. ok.  
Heavy yellow shirt, ditto. ok.

Two pair sport shirts, sizes read ok.



Gloves: all ok.

- 2 pair brown suede
- 2 pair yellow
- 1 pair wullen liners
- 1 pair heavy fur backed

Head gear: all feels too light; what with no hair cut yet to be?

- 1 black with earmuffs too tight
- 1 red wool ditto
- 1 blue "ear protector"? ditto

Misc.

- Suspenders for white "pants"
- Blue belt, and buckle
- One food bag
- Two boxes shoe dope
- One pair sun glasses



Red Parka (open at front)

Green padded vest

2 lumberjack shirt - plaid

1 Heavy white pants (under ~~next~~ <sup>next</sup> pair)

1 2 pair blue buck pants

1 Heavy yellow wool shirt

2 <sup>under</sup> pair drawers + shirts

---

2 pair Kaki pants

---

1 blue navy shirt

1 black hat

Socks

2 pr. heavy grey wool

4 pair mine wht

3 pr. wht. issue

2 pr. Kaki

→ gloves ←

2 pr. tan

2 pr. wool inserts

---

1 reg Kears pair

---

2 cans dobe

High leather shoes (tan)

non-skid (dark grey shoes)

1 pr. Mukks + 1 pr. inserts

1 pr. slipper

---

1 belt + 1 buckle

1 suspenders

---

1 marking pen



Antarctic clothing — Mr. Mogensen ①

"Shoes:

No. 7-1717

1530 - P. Street.

Boots are nine should be at least size 10 or better depending on socks worn.

✓ High tan shoes, ditto

(over shoes?)

Pair  
hulk  
shoes  
size 11

✓ Nylon topped rubber soled shoes, seem  
large enough — but what is worn in them?

✓ Slippers, for indoor wear <sup>feel</sup> are too short, "stab my toes" snug(?)

SHEARLING  
SOCKS.

✓ Bootees, laced lined, insides are too short, stab my toes; should be half inch longer at least.  
won't go in Nylon over shoes, are they supply to?

Socks: Single kaki pair are not mates  
Three pair white (knit) socks are 10's should be 12's (10 is too small)  
One pair heavy grey wool is size 13, first shrinking will surely make them right

Insoles: ~~Two pair grey felt~~  
One pair white "  
One pair "pedi..." } OK.



26.X.62

Examination of (L) inguinal region reveals a moderate sized (L) inguinal hernia which can be held at the internal ring.

Kirkpatrick

Generally it is true surgical services' recommendation is that inguinal hernia be repaired but not on any emergency basis. Although it is unlikely that the patient will experience complications in the next few months we cannot with assurance say that he will be free of symptoms or complications.

Breitschneider



- 1 pr. Binoculars
- 1 exposure meter
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- \* 1 dozen canvas bags
- 3 dozen plastic bags
- 1 piece webbing (3x8)
- \* 1 injecting syringe and needles
- 2 1-lb bottles Hexamine
- 1 fiber case to hold books, papers and collection gear.  
(approx. 2 1/2'x1'x1')

\* Have on hand.

And, such other items  
as may be  
in stock.

Adhesive tape

Rubber bands

Band Aides



SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM

REQUISITION FOR COLLECTOR'S OUTFIT

No. \_\_\_\_\_

(Date) November 16, 1962

TO THE DIRECTOR:

The collector's outfit listed on the reverse side is required for use by:

Waldo L. Schmitt, Research Associate, S.I.  
(Name, title, and institutional affiliation)

during field work for the Museum in Antarctica under auspices of National Science Foundation

Outfit to be addressed: Waldo L. Schmitt

Deep Freeze 63

Outfit to be available on \_\_\_\_\_ for shipment by FREIGHT, EXPRESS,  
(Date)  
MAIL, MESSENGER, COLLECT, PREPAID.

(Name) \_\_\_\_\_

(Title and Division) \_\_\_\_\_

Recommended: \_\_\_\_\_, Head Curator, Department of Zoology

To the SUPPLY OFFICER: The above requisition is approved.

\_\_\_\_\_, 19\_\_\_\_\_  
\_\_\_\_\_  
Director.

To the \_\_\_\_\_: Outfit packed in

is now ready for shipment. Please prepare shipping invoice and packing list and forward with this to the Chief, Division of Correspondence and Records.

\_\_\_\_\_, 19\_\_\_\_\_  
\_\_\_\_\_  
Supply Officer.

Outfit shipped by \_\_\_\_\_

\_\_\_\_\_, 19\_\_\_\_\_  
\_\_\_\_\_  
Shipping Clerk.

TO BE RETURNED TO SUPPLY OFFICER